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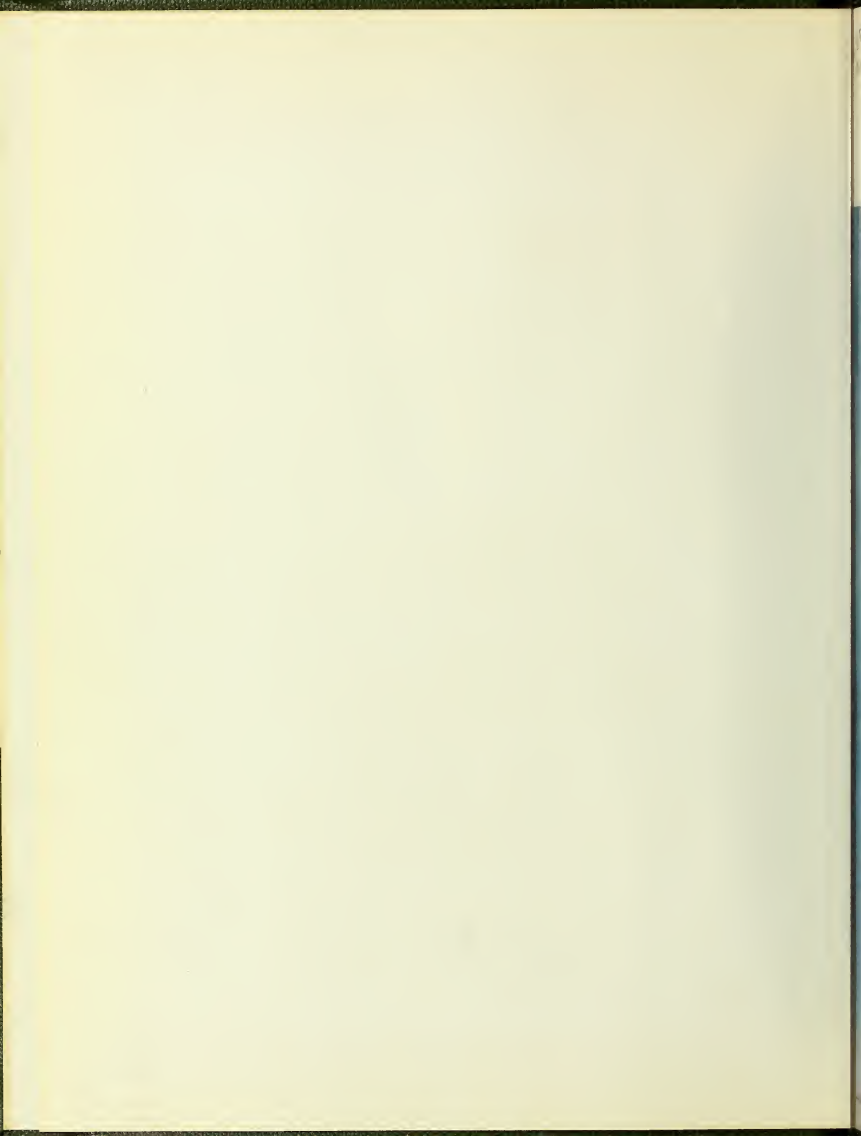
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ANNUAL REPORT

1967



1968

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Department of Public Works

City & County of San Francisco



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ANNUAL REPORT

OF THE

**Department of Public Works
City and County of San Francisco**



JUNE 30, 1968



**JOSEPH L. ALIOTO
MAYOR**

**THOMAS J. MELLON
CHIEF ADMINISTRATIVE OFFICER**

**S. MYRON TATARIAN
DIRECTOR OF PUBLIC WORKS**



MATERIAL COMPILED BY JOHN A. JELINCICH, BUREAU OF ENGINEERING

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COVER PHOTO

THE PEACE PAGODA

Newest of San Francisco's landmarks presented in friendship
to the people of the United States by the people of Japan,
March 28, 1968.

Photo by John A. Jelincich, Bureau of Engineering.

MAYOR
JOSEPH L. ALIOTO

**CHIEF
ADMINISTRATIVE
OFFICER**
THOMAS J. MELLON

DIRECTOR
S. MYRON TATARIAN

DEPARTMENT OF PUBLIC WORKS



**CITY AND COUNTY OF
SAN FRANCISCO**

**JUNE 30, 1968
ORGANIZATION CHART**

**ASSISTANT
DIRECTOR**
ADMINISTRATIVE
R. BROOKS LARTER

**GENERAL
OFFICE**

**BUREAU OF
ACCOUNTS**
SUPERVISOR
JUN IWAMOTO

**PERSONNEL
ADMINISTRATION**
SUPERVISOR
ALBERT C. AMBROSE

**CENTRAL PERMIT
BUREAU**
SUPERVISOR
CLYDE VOLENS

**ASSISTANT
DIRECTOR**
**MAINTENANCE
AND OPERATION**
ARVID H. EKENBERG

**BUREAU OF SEWER
REPAIR & SEWAGE
TREATMENT**
SUPERINTENDENT
KEENO FRASCHINA

**BUREAU OF
STREET REPAIR**
SUPERINTENDENT
CHARLES F. McFADDEN

**BUREAU OF
BUILDING
REPAIR**
SUPERINTENDENT
JOHN S. RUTHERFORD

**BUREAU OF
STREET CLEANING
AND PLANTING**
SUPERINTENDENT
BERNARD M. CROTTY

**BUREAU OF
ENGINEERING**
CITY ENGINEER
ROBERT C. LEVY

**BUREAU OF
ARCHITECTURE**
CITY ARCHITECT
CHARLES W. GRIFFITH

**BUREAU OF
BUILDING
INSPECTION**
SUPERINTENDENT
ALFRED GOLDBERG



CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

December 11, 1968

260 CITY HALL
SAN FRANCISCO
CALIFORNIA 94102

Annual Report
1967-1968

Mr. Thomas J. Mellon
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Mellon:

In compliance with the provisions of Section 20 of the Charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1968.

The Department budget totaled \$34,786,970 from the following sources: General Fund, Special Gas Tax Street Improvement Fund and Road Fund. The amount actually expended was \$28,731,029.

During the year, the Department awarded 311 contracts for a total bid amount of \$17,480,933.

Major projects completed or under construction include: Combined Central Police Station and North Beach Parking Facility, Anna E. Waden Library, Opera House Rehabilitation, Sunset-Richmond Health Center, Army Street Circle Rechannelization-First Phase, Geneva Avenue Widening, Bosworth Street Widening-Third Phase, Downtown Area Street Lighting, Burnett School, Buena Vista School, El Dorado School, Treasure Island School, Paul Revere School Annex, Lincoln Way Supplementary Sewers and Southeast Sewage Treatment Plant Effluent Sewer Extension and Related Pumping Facilities.

Private building activity continued to show a high cost volume of commercial property construction and a slump in residential construction. The overall total value of the construction work for which building permits have been issued is estimated to be \$168,000,000, a decrease of 16% from the previous year.

Unusual activities during the year included the performance or the initiation of most of the field work on traffic routing and reconstruction of underground facilities associated with the construction of the rapid transit system. In this past year, considerable effort was devoted to the preparation of a \$17,500,000 Sewerage and Water Pollution Control Bond issue,

Mr. Thomas J. Mellon

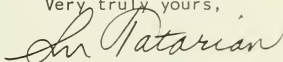
Annual Report
1967-1968

which was approved by the electorate in June, 1968. In addition, an important step has been accomplished on the \$34,000,000 San Francisco Medical Center project by the adoption of the schematic drawings and the beginning of the design work. Also, at the end of the fiscal year, the Federally Assisted Code Enforcement (FACE) program for the 4 initially designated areas is about half completed and has progressed so satisfactorily that steps have already been taken toward a second phase of this program covering 3 additional areas.

During the past year, major personnel changes also occurred. At the end of 1967 Mr. Clifford J. Geertz, after 43 years of outstanding service to the City, retired from the position of City Engineer. Mr. Robert C. Levy was appointed City Engineer, vacating the Superintendent of the Bureau of Building Inspection position, which was filled by Mr. Alfred Goldberg.

The Assistant Directors, the Bureau Heads, their staffs and the personnel of the Department have my sincerest thanks for their continued fine efforts and cooperation. I am also deeply appreciative of the help and support you have given me in matters affecting the Department.

Very truly yours,

A handwritten signature in cursive script, reading "S. M. Tatarian".

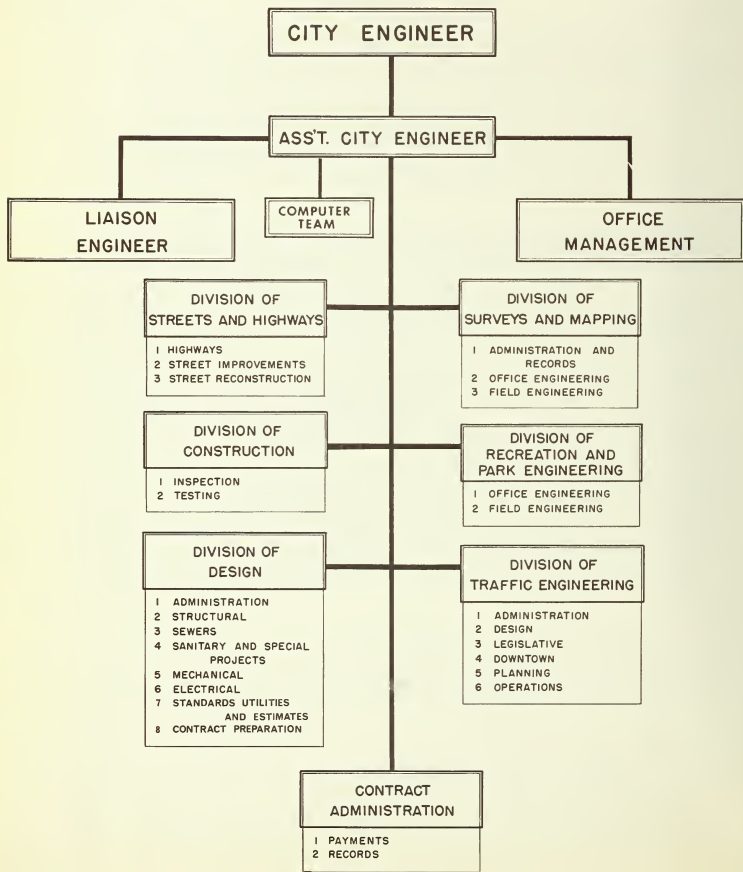
S. M. Tatarian
Director of Public Works

ORGANIZATION CHART

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

JUNE 30, 1968



BUREAU OF ENGINEERING

Robert C. Levy, City Engineer

The work of this Bureau consists of general engineering, planning and services of a continuous nature and is financed from ad valorem tax and from gasoline tax revenues.

The number of contracts awarded increased over the 1966-1967 fiscal year with the value of awards and amounts expended also increasing by approximately 71% and 7%, respectively.

SUMMARY OF CONTRACTS

Table I summarizes the contracts which were awarded or under way during the fiscal year under plans and specifications prepared by the Bureau. This summary is supplemented by separate tables in Appendix I which list all the contracts for each of the various types of construction. Table I also indicates the estimated amount expended during the year on contracts under way, some of which had been awarded during the preceding year but not completed until the current year.

The figures for contracts awarded and amounts expended are shown graphically in Figure 1 for a ten year period.

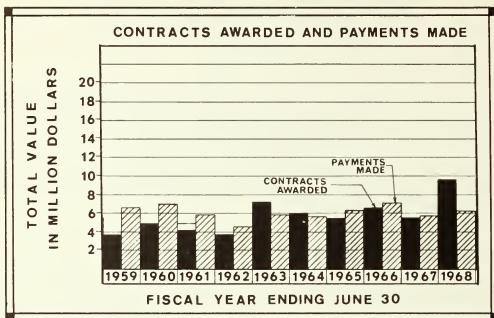
CITY ENGINEER RETIRES

On December 31, 1968, after 42 years of City service, Clifford J. Geertz retired as the eighth City Engineer of the City and County of San Francisco.

Mr. Geertz entered City service upon joining the Hetch Hetchy project in January, 1925. He joined the Bureau of Engineering in November, 1925, and with the exception of his three and one-half years' service with the U.S. Army during World War II he remained with the Bureau until his retirement. His career provided him with wide experience in municipal engineering, and on February 2, 1959 he assumed the position of City Engineer. He was appointed to this position by Director of Public Works Beuben H. Owens.

One of Mr. Geertz's many outstanding projects was a once-in-a-lifetime opportunity requiring imagination, experience, and confidence. The project involved backfilling of a 1500-ft. single track railroad tunnel which had been closed off at each end by cave-ins due to a fire in the tunnel. It was not known whether the fire had been extinguished and the extent of damage to the structural timbers could not be determined, yet the backfilling of the abandoned tunnel was required to insure for all time the stability of the ground and safety of the residences located over the tunnel. The problem solution and contract direction were personally assumed by Mr. Geertz.

Cliff Geertz was regarded highly as an administrator as well as an engineer. He was uniformly called upon by his superiors for his advice and was respected by the men he worked with and supervised for his fairness in his decisions.



CURRENT CONTRACT DATA SUMMARY

SHOWING ALL CONTRACT WORK AWARDED OR UNDER WAY

JULY 1, 1967 - JUNE 30, 1968

Table	Type of Construction	Contracts Awarded		Amount Expended Fiscal Year 1967 - 1968
		No.	Aggregate Value	
A	Major Thoroughfares	6	\$3,408,720.11	\$ 976,408.04
B-1	Streets - Private Contracts	8	89,950.00	66,050.00
B-2	Streets - Assessment Proceedings	8	959,677.91	332,338.10
B-3	Streets - Public Contract City Pay	16	895,305.85	632,000.11
C	Traffic Signals & Channelization	10	458,061.26	257,541.82
D-1	Sewers - Vitrified Clay & Concrete	8	1,079,113.20	1,406,669.66
D-2	Sewers - Concrete Monolith	1	208,598.00	798,149.85
E	Recreation-Park	14	379,173.16	507,293.45
F	Miscellaneous	40	2,179,144.43	1,301,523.39
G	Informal & Emergency	15	45,995.95	78,385.62
TOTALS		126	\$9,703,839.87	\$6,356,360.04

ENGINEERING PLANS AND SPECIFICATIONS FOR BUREAU OF ARCHITECTURE

49 Contracts	\$1,010,383.00
B. A. R. T. D. - 4 Contracts	1,075,000.00
GRAND TOTAL	\$11,789,222.87

AFRICAN SCENE

The "African Scene" project, located on the south edge of the San Francisco Zoological Gardens west of the main entrance, is a new portion of the exhibit of African fauna. Adjoining the area are sections displaying hoofed animals from the Dark Continent such as the zebra and the giraffe; opposite are the lion grottos. Taken together, all the exhibits make up the African Scene.

In this project an attempt was made to defeat the "fenced in" look so prevalent in other zoos. This was accomplished by the use of colored gunite concrete block walls and buildings which blend into the background, log fences and rock walls. A further esthetic effect is the use of green colored gunite concrete for the pools to simulate the marshy areas that surround waterholes.

The exhibit has three islands separated by gunite moats. Each island is for a different species of African pachyderm. Two related types, the hippopotamus and the pygmy hippo, jointly share one island but are kept apart by rock walls. The other islands display elephants and white rhinoceros. The islands are constructed in such a manner that one winds around another so that at times it seems that different species are intermingled.



San Francisco Zoo
African Scene



The animals are housed in concrete block buildings, each type having separate quarters and entrances. Runways to the entrances are separated by moats and log fences. In order to insure the safety of the operating personnel, provision has been made for remote operation of doors to the viewing islands. Space is provided for storage and keepers' facilities.

In keeping with the policy of combining recreation areas with park areas, the site is landscaped with material to resemble the flora of Africa. Planting material and labor was provided by the Recreation and Park Department.

The project cost, approximately \$168,000, and the architectural services of J. Francis Ward were donated by the San Francisco Zoological Society.

Construction was under the supervision of the Division of Recreation and Park Engineering.

FLORAL FIESTA



1968 S.F. Exhibit, San Mateo County Fair & Floral Fiesta.

One of the little-known assignments of the Bureau of Engineering is the part it plays in the San Mateo County Fair and Floral Fiesta.

In 1962 San Francisco was invited to participate. Our Landscape Architect, with the cooperation of the Director of the Arboretum, designed and built a display featuring a gazebo, which won first prize in its class. In subsequent years the design and supervision of the exhibits has been the responsibility of this Bureau. In no year has a San Francisco entry failed to gain an award.

The gazebo built for the first exhibit has served well. It was used in other Recreation and Park Department projects, has been used as a ticket booth, and was a part of the 1965 display in the 1965 Floral Fiesta, which won a first award in the class "Design for Living."

The Landscape Architect is responsible for design and supervision. Labor and materials to build or erect the exhibits are supplied by the Recreation and Park Department. Funds for this annual project are made available from the Publicity and Advertising Fund administered by the Chief Administrative Officer. Cash awards to the exhibits are deposited in the fund to help defray the expenses incurred by the City. Awards in the last



1967 S.F. Exhibit

San Mateo Co. Fair and Floral Fiesta



1966 S.F. Exhibit

few years have exceeded funds provided from the Publicity and Advertising Fund. To encourage "Excellence in Design" and "Excellence in Horticulture," a special judging committee separately considers professional displays in these categories for both indoor and outdoor exhibits. It is not incumbent upon the judging committee to make these awards; they are reserved for true excellence. On occasion, there has been no award. San Francisco displays have won Special Awards in both categories.

The judges have great latitude in the awarding of prizes. They set their own standards for each rank. If, in their opinion, no display qualifies at a certain rank, that rank will not be awarded, be it first, second, third, or fourth.

1962	First Award	Roof Garden		\$270.00
1963	Third Award	Night Life	\$150.00	
		Flowering Plants	<u>25.00</u>	175.00
1964	First Place	Contemporary Living and others		400.00
1965	First Award	- Design for Living	550.00	
	First Award	- Tuberous Begonias	75.00	
	Second Award	- Coleus	7.50	
	Second Award	- Coniferous Evergreens	80.00	
	Third Award	- Decorative Plants	25.00	
	Third Award	- Flowering Plants	25.00	
	Fourth Award	- Fibrous Begonias	25.00	
	Fourth Award	- Deciduous Trees	<u>30.00</u>	817.50

Special Award by Pacific Gas and Electric Company Trophy for Night Lighting

1966	Special Award - Excellence in Design	\$100.00	
	First Award - Design for Living	85.00	
	Second Award - Coleus	7.50	
	Third Award - Conifs	60.00	
	Third Award - Decorative Plants	25.00	
	First Award - Broadleaf Evergreen	60.00	
	Second Award - Conifer Tree	30.00	
	Third Award - Deciduous Trees	40.00	
	Second Award - Marigold	<u>25.00</u>	\$932.50
1967	Special Award - Excellence in Horticulture	100.00	
	First Award - Coleus	10.00	
	First Award - Deciduous Trees	80.00	
	First Award - Evergreen Trees	200.00	
	Second Award - Public Park	450.00	
	Second Award - Conifers	<u>80.00</u>	920.00

ELIMINATION OF TRAFFIC CONGESTION AT ARMY STREET CIRCLE

In May of 1968, the first contract for rechannelization work began on the Army Street Circle, a traffic rotary constructed some eighteen years ago with the James Lick Freeway, but which has become functionally inadequate to handle existing and future traffic volumes (see traffic volume diagrams).

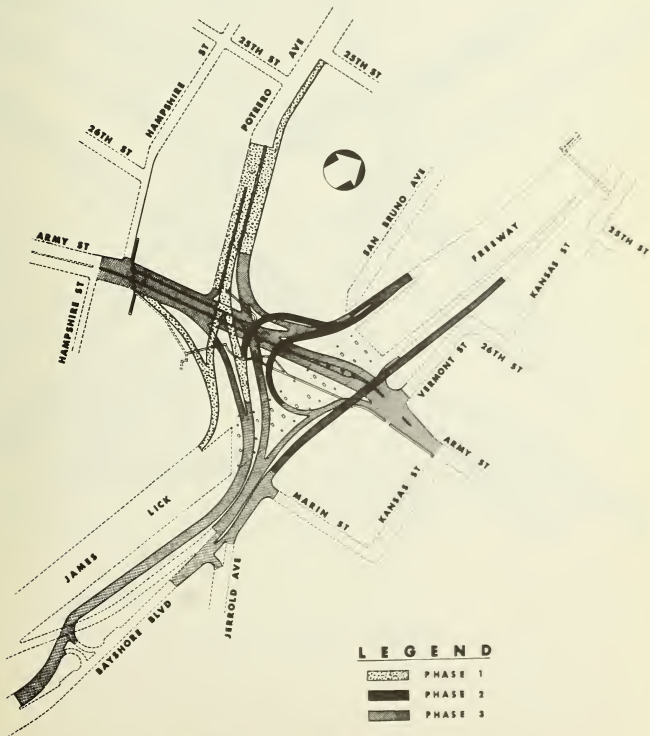
Since the traffic rotary was put in service in 1950, several modifications have been made at several critical points to expedite traffic flow. Although these modifications provided some relief from traffic congestion, they could not cope with the demands of ever-increasing traffic. Oval in shape and with a major axis approximately 500 feet long, the traffic rotary is relatively small in size, but is called upon to accommodate five points of entry and an equal number of exists along its perimeter.

In an attempt to solve the problem of severe traffic congestion and mounting traffic accidents in the area, a comprehensive plan for the improvement of the traffic rotary was developed that met the approval of the California State Division of Highways. Under this plan, the existing traffic rotary is to be abandoned and replaced with a system of new roadways and ramps. Crossings at grade are to be eliminated and channelled through the area on grade separation structures.

A substantial number of the existing public and private utility facilities in the area will have to be relocated to permit the rechannelization work. Among them are the 8'6" x 7'0" reinforced concrete sewer; 8", 16", and 48" diameter water mains; 8", 16" and 36" diameter gas mains; 10" and 12" diameter high pressure water lines; two 110-KV Somatic cables and one telephone cable. A time and space allocation schedule for the orderly relocation of the facilities was worked out with the cooperation of all parties concerned.

Under the first contract, the reinforced concrete sewer on Army Street will be relocated to the south side of the traffic rotary and down Marin Street; the Potrero Avenue roadway between Army Street and 25th Street will be widened on the east side by 20 feet; and elevated roadways will be constructed from Potrero Avenue to Bayshore Boulevard and to the James Lick Freeway southbound on-ramp.

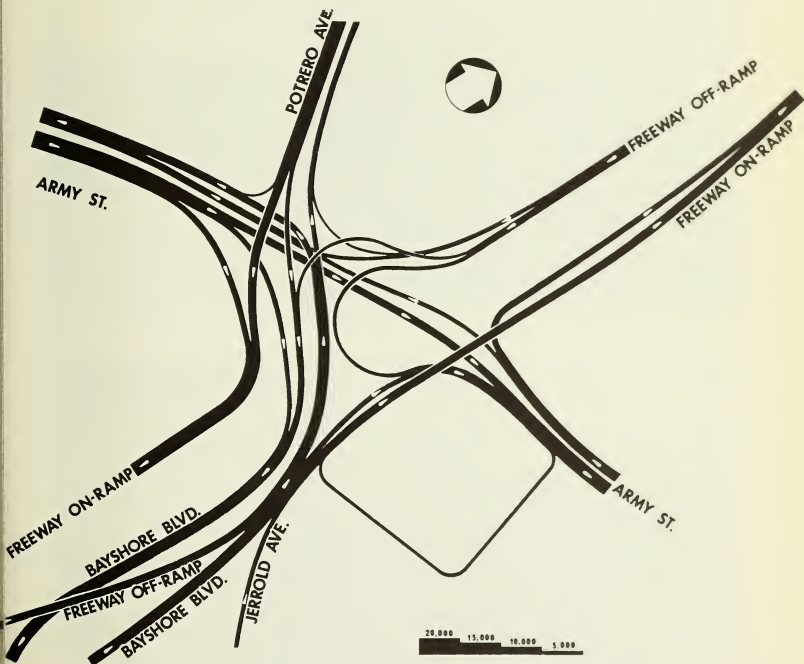
The rechannelization work is to be carried out in three phases as shown in the diagram. It is estimated that all work will cost some seven million dollars and will require over four years to complete.





ARMY STREET CIRCLE

TRAFFIC FLOW-1965 BEFORE CONSTRUCTION



ARMY STREET CIRCLE

ESTIMATED ADT AT COMPLETION



Before



After

IMPROVEMENT OF QUINT STREET, BETWEEN OAKDALE AVENUE AND
JERROLD AVENUE

An occasionally impassable dirt road becomes a useful link of the southerly approach route to the San Francisco Wholesale Produce Market.



Before



After

IMPROVEMENT OF MADISON STREET AND PIOCHE STREET BETWEEN
GAMBIER STREET AND VALMAR TERRACE

The upper roadway of Pioche Street leads to previously inaccessible properties on Madison Street, while the lower roadway provides an auxiliary benefit of improved traffic circulation in the neighborhood. An exposed aggregate finish was used for the concrete retaining wall.

Before



After



IMPROVEMENT OF BURNETT AVENUE NORTH OF DIXIE ALLEY

View properties on the easterly slopes of Twin Peaks are now served by the new Burnett Avenue, which was constructed in two segments. The southerly segment that leads to residential developments at the southerly end of the avenue (shown above) was completed through assessment proceedings. The northerly segment connects with Twin Peaks Boulevard, and was entirely financed with public funds.

STREET IMPROVEMENTS

During the 1967-1968 Fiscal Year, property owners who benefited from nine street improvements by public contract were assessed \$214,115 although the work done had an aggregate value of \$499,982.

For the same period, there were eight street improvements by private contract, with an aggregate value of \$153,000, all borne by property owners.

Before



After

IMPROVEMENT OF ARMY STREET WEST OF MARYLAND STREET

Looking east, the street improvement serves the multi-million dollar Army Street Terminal recently completed by the San Francisco Port Authority

MARINA GREEN PERIMETER ROADWAY RECONSTRUCTION

Marina Green Perimeter Roadway, a point of interest along the 49-Mile Scenic Drive, was reconstructed to improve vehicular access. A portion of the roadway opposite Webster Street was widened from 40 feet to 80 feet to permit perpendicular parking on both sides of the roadway, while the remaining roadway was kept at its existing width of 65 feet. A combined curb and 2-foot gutter was added for proper roadway drainage.



Situated between the Marina Green on the right and the San Francisco Bay on the left, the reconstructed roadway is put to more efficient use.
(Photo looking east.)

Looking west, view of the Golden Gate Bridge is partially obstructed by the U.S. Navy De-gaussing Station.



STREET AND SIDEWALK INSPECTIONS

The ending of the fiscal year also marked the conclusion of the Fourth Contract in the continuing safety program for accelerating the construction, repair, and replacement of sidewalks, driveways, curbs, and gutters at various locations throughout the City.

Substantial sidewalk work was effected through the medium of the contract by property owners and by the City, with the following notable results for the 1967-68 Fiscal Year:

Work Orders authorized by property owners or City	- - - -	602
Area of Sidewalks Repaired	- - - - -	127,335 sq. ft.
Aggregate Value of Repair Work	- - - - -	\$80,221

In connection with the investigation of claims against the City arising from street or sidewalk usage, inspection personnel made court appearances and assisted the City Attorney's Office in completing reports, depositions, and interrogatories. Of the 65 claims disposed of during the fiscal year, 33 cases were won by the City or were dismissed, while 32 cases resulted in litigated settlements or judgments for the claimants. Of the \$2,076,418 sought by the claimants, only \$33,295, or 1.6 per cent of the amount sought, was yielded by the City.



Before



After

HEMLOCK STREET, VAN NESS AVENUE TO FRANKLIN STREET
SIDEWALK REPAIR

DIVISION OF CONSTRUCTION MATERIALS TESTING LABORATORY

The Materials Testing Laboratory has continued to guarantee specification quality construction materials for various City projects through its program of materials testing and inspection.

In order to check the procedures and equipment used in the Laboratory, a two day inspection performed by personnel of the National Bureau of Standards was completed. Steps have been taken to correct the deficiencies noted in their report.

In addition to the more routine testing of concrete, soils and reinforcing steel the Laboratory has increased its plant inspection activities. Manufacturers of clay sewer pipe, castings, pre-cast concrete products, asphalt products and others are inspected regularly to assure high quality products.

The diversity of activities and the accompanying range of skills required by Laboratory personnel has been recognized by Civil Service. The creation of a new classification, Materials Testing Technician, has enabled the Laboratory to program and complete its activities more efficiently.

THE MATERIALS TESTING LABORATORY PROVIDES QUALITY CONTROL OF PORTLAND CEMENT CONCRETE THROUGH...



PLANT INSPECTION



JOBSITE CONTROL

AND...



LABORATORY TESTING

BART CONSTRUCTION

A total of 14 contracts were awarded by the end of this year. Traffic restrictions in the Market Street area included the detouring of all traffic from Market Street at the station work sites, the installation of peak hour tow-away restrictions on streets south of Market, the restriction of work in the downtown area weekdays, 7 A.M. to 7 P.M., and the installation of various turning restrictions, all instituted to help ease congestion on the heavily traveled downtown streets.

Municipal Railway streetcar service on Market Street was discontinued east of 11th Street on nine separate weekends during the year to allow "shoo-flying" of streetcar tracks at the station.

The only contracts still to be let on lower Market Street cover the three blocks between Sansome and Main Streets, in which is included the City's Embarcadero Station. This last phase of construction will require even more severe restrictions to traffic.

All contracts are now under way on Mission Street. To allow construction of the stations and construction of the access shafts for driving the tunnels, certain traffic restrictions were needed. Fifteenth, 21st, 22nd, 23rd, 24th, 25th and 26th Streets were all made one-way streets to facilitate the handling of traffic detoured from Mission Street while it was closed to vehicles. Subsequently, 21st, 22nd and 24th Streets were returned to two-way operation. Mission Street was closed to all through traffic at various times and locations for a total of 22 weeks during the year. The closure between 15th and 16th Streets ended in August of this year. No other closures of the street should be required until each separate job is being completed at the street surface.

Approximately 175 traffic plans were submitted for approval during the year, requiring about 150 letters to be answered. In addition, 95 Special Traffic Permits were issued for work being done in the downtown area. In the two previous years, a total of 62 permits were issued. About 35 Department of Public Works Orders were written up to take care of legislation during the year.



Market and Montgomery Sts.



BART TRAFFIC ROUTING

24th and Mission

Research Projects

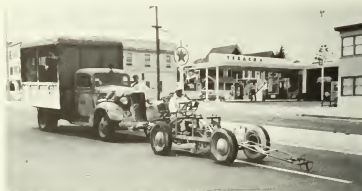
In the past year, the Division has cooperated in two federally-funded traffic research projects. The projects have been conducted by private engineering firms, but the City has participated to the extent of gathering traffic data and making changes in its traffic control system.

One study conducted by the joint venture of Wilbur Smith and Associates and the Stanford Research Institute covered an area bounded by Haight Street to Bay, Van Ness Avenue and Park Presidio Boulevard and attempted to predict the effect on traffic patterns of changes in the street traffic control system. In a preliminary part of the study, an extensive origin and destination survey in the morning peak hours was undertaken, coupled with an analysis of home-to-work routes of selected drivers. The effect on the traffic patterns of a change in a street traffic control system was then estimated by the computer. The change was then instituted in the field and traffic counts were made to check the actual effect. As of this moment, the analysis is not complete.

The second project undertaken by the firm of Peat, Marwick and Livingston attempted to minimize delays and stops for motorists operating in the south of Market signal network by developing a new signal-timing program using a high capacity computer. Complete information on traffic movements, parking and roadway conditions in the south of Market area were gathered and analyzed by the computer, and a new signal-timing program was developed. The results of the program were checked out by before- and after- speed and delay studies. In the morning and off-peak hours, conditions remained the same, although they worsened in the evening peak hour. It must be remembered, however, that this is a research project and that the information gained from this study may lead in the future to improve computer techniques that may result in improvements.

New Traffic Striping Machine

The photographs on this and the next page show the old and new traffic striping machines of the Department of Public Works. The new traffic striping machine costing \$33,000 was purchased primarily to improve safety conditions for the paint crew, but also to increase the efficiency of the striping operations. Safety is increased by having all the crew operate within the confines of the machine, and efficiency is improved by having available multiple paint nozzles for striping two lanes at a time, heating the paint for faster drying, and making arrangements for continuous, rather than intermittent striping operations.



Striping Machine - 1956



Striping Machine - 1962

Preliminary checks indicate that striping production may double when the new equipment is in complete working order.



Striping Machine - 1968

Thermoplastic Crosswalks

To combat increased costs, the Department of Public Works undertook its first large-scale installation of thermoplastic crosswalks. The material for these crosswalks is melted and then extruded in a layer about an eighth of an inch thick.

The first installation on Fell and on Franklin Streets was done in connection with a street resurfacing contract. Twelve thousand six hundred feet of stripe costing \$14,000 was put down. The second installation was done by City painting crews - 9,700 feet costing \$7,600 was installed. It is estimated that if the crosswalk installations last five years, they will pay for themselves. That this will very probably occur can be seen by example of the Van Ness Avenue crosswalks. These thermoplastic crosswalks, installed by the State Division of Highways in 1961, are still in very good condition after over seven years of wear.

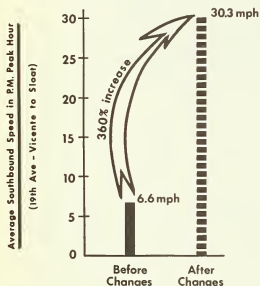
19th Avenue and Sloat Boulevard

For years, the intersection of 19th Avenue and Sloat Boulevard has been a focal point of both traffic accidents and congestion, and most of the accidents can be traced directly to traffic congestion. In the evening peak hour, the average speed of southbound traffic between Vicente Street and Sloat Boulevard was 6.6 miles per hour. There is also evidence that many motorists avoided this route and used residential streets to complete their trip.

The bottleneck has now been broken. A new traffic program which involved prohibiting left turns for westbound Sloat Boulevard and northbound 19th Avenue, providing a separate left-turn lane for southbound 19th Avenue, and changing the signal-timing program to take advantage of these new factors, has had dramatic results. The average speed of traffic southbound has increased from 6.6 miles per hour to 30.3 miles per hour in the evening peak hour. In terms of delay, these southbound motorists are now saving 92 vehicle hours daily valued annually at \$45,000. As of now, it is too early to determine the effect on accidents, although preliminary checks indicate a good-sized decrease.

19th Ave & Sloat Blvd

Effect of Channelization
and Signal Timing Changes



BEFORE

19th Ave. at Wawona St. (looking south) - 1962



AFTER

19th Ave. at Wawona St.
(looking south) - 1968

Miscellaneous Investigations

	Number of Investigations Made
Written Reports to San Francisco Parking Authority	32
Parking Checks	13
Advisory Appearance and Conferences with	
San Francisco Parking Authority	35
Formal STOP and YIELD Sign Investigations	206
Formal Parking Control Investigations	92
Formal Traffic Signal Investigations	116
Other Formal Investigations	745

Traffic Legislation

	Completed 1967-68	Deleted 1967-68	Number In Place 1967-68
Stop Intersections	1.06	2	1,964
Yield Intersections	0	3	19
Through Streets, Miles	3.8	0	103.1
One-Way Streets, Miles	2.6	0.1	79.5
Speed Zones (other than 25)	0	0	66.4
Turn Restrictions (24 hours)	7		
Turn Restrictions (Peak Hours)	4	1	
Towaway, Block Faces	34		
Time Limit: Block Faces	17		
Angle Parking: Block Faces	4		
Other Turn Controls	4		
No Parking Any Time: Block Faces	15		
Items discussed at ISCOTT	772		
Items having Department Public Hearing	102		
Items to Board of Supervisors for Action	103		
Items handled under Sec. 33.1	6		

Pavement Painting

	Completed
Standard Striping, Miles	547.2
12-Inch Stripes, Miles	152.1
Pavement Words (Cost included in other items)	9,360.0
Bus Zones, Feet	118,816.0
Parking Stalls (all types)	8,266.0
New School Intersections	2.0
Total School Intersections in Place June 30, 1968	948.0
Pounds of Reflective Beads Used	40,780.0
9" Stripes, Miles	36.4

Traffic and Street Name Signs

		Completed 1967-68
<u>Traffic Signs</u>		
Parking Signs Installed		562
Parking Signs Repaired or Changed		703
Parking Signs Removed		166
Other Signs Installed		651
Other Signs Repaired or Changed		947
Other Signs Removed		295
Stop Signs Installed		264
Stop Signs Repaired or Changed		198
Stop Signs Removed		47
Total		3,833
Estimated Approximate Cost 1967-68	\$55,000	
Estimated Total Number in Place June 30, 1968	36,000	
<u>Street Name Signs</u>		
Street Signs Repaired or Changed		1,074
Street Signs Installed		27
Total		1,101
Estimated Approximate Cost 1967-68	\$36,500	
Estimated Total Number in Place June 30, 1968	7,500	

Parking Meters

New or Amended Zones	3
New Installations	103
New Installations in Public Parking Lots	0
Removals	156
Installations	171
Relocations	175
Temporary Removals	413
Total Number in Place June 30, 1968	12,710

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

Traffic Signals and Channelization

	Completed 1967-68	Number In Place 6-30-68
Channelized Intersections		
Concrete Islands	6	255
Raised Pavement Bars	4	48
Total	10	303
Signalized Intersections		
3-Light Installations	15	758
Equipped with Pedestrian Signals	14	224
Actuated Signals	4	179
Pedestrian Overpasses (over City streets)		15

SEWERS DESIGN SECTION

A \$17,500,000 Sewerage and Water Control Bond Issue proposal was prepared for voter approval at the June 4, 1968 election. The proposal, which provides for the orderly improvement of the sewerage system required for the next four years, was passed and received approximately 75% voter approval.

The relocation of sewers to accommodate BART construction continues to be a significant portion of the Section's design work. In addition to design, considerable time was devoted to BART work for shop approvals, field changes, and sewer maintenance problems occasioned by construction.

Plans and Specifications prepared for sewer relocation work to be included in BART projects had an estimated contract value of \$500,000. The work included sewer relocations for the Glen Park Station, Balboa Park Station, Vent Shafts at Spear Street and at 15th Street, and contracts for various tunnels between stations.

The most significant of these projects was for the Balboa Park Station, which included relocations valued at \$265,000, and required the design of a deep sewer system with deep shaft drop structures to cross beneath the BART system.

A significant sewer project was included in the contract for the Army Street Circle Rechannelization. It consisted of a 9 foot by 11 foot reinforced concrete sewer designed to replace the trunk sewer displaced by the Army Street Underpass. The Contract price of the sewer work was \$851,000 or approximately 40% of the project's total contract amount.

A major sewer project in the vicinity of 23rd and Minnesota Streets was awarded after many years of protesting of the assessment proceedings by a few property owners. The contract value was \$408,000.

A significant portion of this Section's work does not appear in the Contract Data in Appendix I, under the sewerage categories D-1 and D-2. The following indicates the value of sewer work included in other categories:

		Amount for Sewer Construction	Value of Sewer Work as Percent of Contracts
A	Major Thoroughfares	\$ 983,000	29%
B-2	Streets Assessment Proceedings	535,000	56%
B-3	Streets - Public Contract City Pay	147,000	16%

STANDARDS, UTILITIES AND ESTIMATES SECTION

The Standards, Utilities and Estimates Section of the City Engineer's office has, as one of its principal responsibilities, the administration of the Underground District Program. This program has been in force since 1899 and in the years since then, has effectively accomplished the removal of overhead wires and poles from two and one-half miles of City Streets each year.

With the growth of popular interest in beautification of urban areas and a recent ruling by the California Public Utilities Commission on the subject, the local program for this work has been appreciably accelerated. In the years since the inception of the Program, an average of 2.64 miles of streets per year have been scheduled and accomplished. During the year 1967-68, a total of 4 miles of overhead wiring was converted to underground, by contrast, in the 1968-69 fiscal year, 6.98 miles are scheduled.

Most of the undergrounding has been done in connection with street work or similar public improvements, with consideration being given to petitions or other private requests as the remaining allowable mileage would permit.

Over thirty miles of undergrounding have been added to the back log of proposed projects so far in the current fiscal year, through fourteen private requests or petitions and in forty-six street improvement projects. Appended is a list of underground districts which were legislated, in several stages, for partial accomplishment during this fiscal year. In addition, twenty-six areas involving 81.69 miles of streets which were originally constructed to conform to underground district regulations were legislated and incorporated into the Program in order to prevent any future overhead construction. Thirteen remaining similar areas will shortly be legislated for the same reason.

The current Five-Year Underground District Program consists of sixty-seven scheduled districts of 40.25 miles and thirty-three additional unscheduled districts totaling 17.89 miles. Each district will be carefully considered for reasons of public need or improvement, aesthetics, and economics, and if approved, legislation will be undertaken at the appropriate time. The Five-Year Program will continue to schedule five to seven miles of proposed undergrounding per year pending a final decision of matters now before the California Public Utilities Commission. It is hoped that even this mileage can be increased so that all overhead facilities can be removed from the public streets in as short a time as possible.

Underground Districts Legislated, Work to be Done During 1967-68 Fiscal Year

District No.	176	Russian Hill Area - Stage 1 (legislated in 1963)
	195	27th St. - Noe to Castro (legislated in 1966)
	197	Fisherman's Wharf Area, Stage 2 (legislated in 1966)
	199	Aquatic Park Area, Stage 1 (legislated in 1966)
	202	Willard St. - Parnassus to Belmont
	206	*St. Francis Wood
	211	Western Addition Redevelopment Area A-2 - Stage 1 (legislated in 1967)
	210	Army St. Circle
	212	*Balboa Terrace & Mt. Davidson Manor
	213	*Westwood Park
	214	Pierce St. - Union to Filbert
	215	Pine St. - Laguna to Presidio Ave.
	217	Lincoln Way - 5th to 8th Aves.
	219	Juri Street
	240	Dwight, Somerset, Karen Court
	241	Sunnydale Ave. Extension to Persia Ave.

*Conforming areas.



BOSWORTH STREET PEDESTRIAN OVERPASS

A pedestrian overpass has been constructed over the concurrently widened Bosworth Street in keeping with the policy of providing safe passage for school children and other pedestrians over heavily traveled expressways.

The top flange of a prestressed post tensioned concrete tee beam serves as the walking surface of the main 102-foot span across Bosworth Street.

On the south side, a folded ramp of reinforced concrete tee section services the school yard at an upper level and Bosworth Street at the lower level.

The esthetically pleasing spiral ramp on the north side features spans over a 120 degree arc and services Bosworth Street and Elk Street, a short distance away.

GREENWICH STREET STAIRWAY BETWEEN MONTGOMERY & SANSOME

This stairway features precast steps on a continuous, cast-in-place, reinforced concrete stringer and a vinyl-covered metal railing. Due to the attractive landscape maintained by adjoining property owners, and with Coit Tower in the background, this stairway has become a favorite walk for view-loving pedestrians.





JAMESTOWN AVENUE PEDESTRIAN OVERCROSSING

This overcrossing features the longest reinforced concrete span in the City. Autos leaving the Stadium parking lot will no longer have to wait for pedestrians to cross Jamestown Avenue.

The choice of reinforced concrete to match the Candlestick Park Stadium was a fortunate choice. This is not only because it is esthetically complimentary, but it was constructed at 30% less cost than similar overcrossings of prestressed concrete built within the last two years.

Mechanical Section

MODEL TESTS AID SEWAGE SUMP DESIGN

During this fiscal year a service order was issued to the University of California, College of Engineering, Office of Research Services, Berkeley, California, to build and test a model of a proposed sump for the main lift station at the Southeast Water Pollution Control Plant.

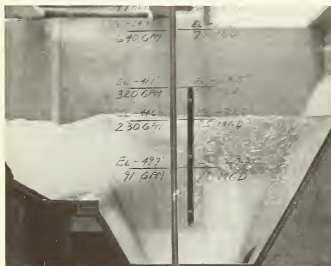
The sump model study was part of a project in the 1964 Sewer Bond for improvements to the lift station to increase the station pumping capacity, minimize grit and scum accumulation and to reduce operating and maintenance costs. Preliminary engineering study for the lift station project revealed that reduction of existing sump size and installation of variable speed pumping equipment were needed to accomplish this end.

Design of the modifications to the sump was based on effective use of existing structure with a minimum of concrete removal and to avoid relocation of the mechanical bar screen recently installed. In addition, a well-designed sump should produce flow patterns free from eddy currents and air entraining vortices which adversely affect pump performance. However, analysis of the flow patterns by analytical methods is extremely complex. It was therefore decided that sump model tests be conducted.

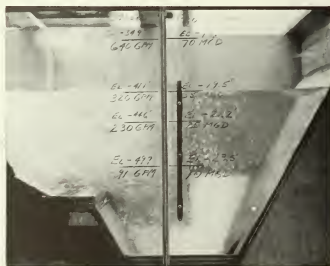
The sump model was constructed for one of two similar sumps for the lift station, as shown on Photo No. 1, to a length scale ratio of 5.7-to-1. (prototype to model) to best utilize University Hydraulics Laboratory testing facilities. Wood and clear plastics were used to permit necessary visualization of flow patterns and to allow rapid and economical changes to flow channel configuration. No attempt was made to include the mechanical bar screen in the sump model.



Sump model constructed of wood and clear plastics.



Sump model testing without baffle.



Sump model testing with baffle.

Flow tests corresponding to prototype flow rates from 10 MGD to 70 MGD were conducted with the model, and modifications were made to correct deficiencies revealed by the tests. The bottom slope of the intake channel was changed and a baffle added to minimize air-entrained flow from entering the pump suction line. Photo No. 3 depicts clearly the differences in the flow patterns and the amount of entrained air downstream of the baffle as compared with Photo No. 2 without the baffle.

The tests showed that the baffle also aids in reducing turbulence in the liquid surfaces downstream of the baffle and in eliminating eddy currents in the flow channel and equalizer gate between the two sumps. As the result of the latter information, work contemplated to be necessary to reduce solid build-up due to eddy currents in this area was deleted for the prototype at a considerable saving.

Due to an offset in the existing intake channel, raw sewage flowing through the face of the mechanical bar screen is unevenly distributed, adversely affecting the operation and operating life of parts of the equipment. This uneven flow condition was corrected by using modeling clay to re-shape the inlet to the sump model. When this work is projected on the prototype sump, it is expected that the influent will flow unimpeded through the inlet but evenly through the screen as predicted.

The final sump configuration as a result of the model study has been incorporated into plans for a forthcoming contract, which will be one of several major projects to improve the facilities at the Southeast Water Pollution Control Plant.

ELECTRICAL SECTION

Street Lighting

Improvement of the City's street lighting continued during the past year. Contracts were completed for the installation of 852 new street lights.

Street Lighting Bond Issue

A total of 10 contracts for the installation of 642 new street lights were completed during the year with funds provided by the 1964 Street Lighting Bonds.

Research and Development

During the year, efforts were intensified to find means of expediting work and holding the line on construction costs.

An important step was the photographing of all the street lighting plans of the Bureau of Engineering and Bureau of Light, Heat and Power. Sets of

aperture cards and a microfilm reader were made available in the Design Section. When the records are properly indexed, the designers will have immediate access to all street light plans.

Study was also continued to determine the most satisfactory material for poles, the most economical system of energy supply and the most durable protective coatings.

The effects of street lighting on street crime were checked as usual but due to changes in the Police Department's method of keeping records, it is impossible to make a comparison with the statistics of previous years.

SANITARY AND SPECIAL PROJECTS SECTION

The work of this Section is divided into the following three programs: Planning and Studies, Treatment Plant Contracts and Special Projects Contracts.

PROGRAM I - PLANNING AND STUDIES

- A. Feasibility of Treatment of Overflows From Combined Sewers (page 48; 1966-67 Annual Report) - The final report for this \$99,820 Federal Research Grant was submitted to the Federal Water Pollution Control Administration. The report characterized combined sewage overflow and recommended that a full scale dissolved air flotation process be constructed on one of the City's outfalls.
- B. Baker Street Air Flotation Facility - A federal grant application was submitted and approved by the Federal Water Pollution Control Administration to continue the research work under Item "A" above and to construct a dissolved air flotation unit at the Baker St. outfall near the St. Francis Yacht Club. The Federal Water Pollution Control Administration will give the City 2/3 of the project cost up to a maximum of \$921,000. The work will involve pre-evaluation and most evaluation of the chemical, biological and physical parameters of the receiving water. The total project is estimated at approximately \$1,500,000.
- C. Tunnel Storage Study - A prefeasibility study was initiated to determine the feasibility of constructing a system of tunnels beneath the City to store the wet weather overflow from the City's combined sewer system for the protection of the waters contiguous to the City's shoreline. Such overflows occur about 30 times per year and affect the receiving water quality for approximately 70 days per year. Upon termination of rainfall, the contents of these tunnels would be conveyed to the treatment plants. Two tunnel schemes were investigated, the difference being the point of flow interception and the means of transport to the treatment plants.

Such a system would accommodate 83 per cent of the total combined flow presently discharged without treatment and a total of 88 per cent of all combined flow. The existing system is capable of conveying only 31 per cent of the total combined flow to treatment. In addition, storage of the first two hours of any storm could be provided.

Although this study has not been finalized, preliminary indications are that a system capable of limiting overflow to four times per year could be constructed for an estimated cost of approximately \$175 million.

- D. Shoreline Retention Basin Study - A prefeasibility study of shoreline retention basins was initiated as another approach to the same end as the Tunnel Storage Study. This study was to determine the feasibility of constructing concrete shoreline retention basins in the vicinity of the storm sewer outfalls. Meetings of the Interdepartmental Committee on Water Pollution Control with representatives of the North Water-front Planning Area Study have shown that the locating of basins along the Northern Waterfront would not adversely effect the development of the area. In fact, because the basins would be constructed underground and be completely closed over, use could be made of the surface area at the ground level.

The engineering portion of the shoreline retention study is currently underway to include the storm overflows from the City's 41 outfalls. Cost estimates are not as yet available.

- E. Secondary Treatment vs. Oceans Disposal of Primary Effluent Study - A prefeasibility study was initiated to determine if the transport of primary effluent to the deep waters of the ocean, either with or without grit removal treatment, was a practical alternate to secondary treatment if such was necessary to meet water quality requirements. The results of that study were encouraging enough to proceed with a second stage study. The firm of Brown and Caldwell was retained for that purpose.
- F. Liquid Chlorine - Sodium Hypochlorite Study - A study was initiated to determine the feasibility of abandoning the use of liquid chlorine for sewage treatment purposes, due to the hazards involved, in favor of using sodium hypochlorite obtained by either purchasing or self-manufacturing. Dr. Jerome F. Thomas, of the University of California was engaged to aid in this study.
- G. Digester Model Study - A five foot diameter plastic scale model of the digesters at the Southeast Water Pollution Control Plant was made to study grit deposit and movement in digesters with gas recirculation.
- H. Cyclone Study - A new type, two stage cyclone being developed by the Laval Company was under field testing conditions at the Southeast Plant. The completed study will include an evaluation of its use for the grit stripping of sludge as well as of sewage.
- I. County Jail No. 2 - Study On Alternate Methods For Sewage Disposal - A study was completed comparing various alternates of sewage disposal at County Jail No. 2 at San Bruno. The recommended action was to pump the raw sewage to North San Mateo County Sanitation District, rather than continuing sewage treatment with the Jail's antiquated plant.

- J. Alternate Sites For A Garbage Incinerator - A study was made in conjunction with the Department of City Planning on alternative sites to the proposed Butchertown site for the location of a garbage incinerator. Eight alternate sites were evaluated from both an economical and environmental standpoint. Seven acres of land would be required for the installation.
- K. Participation In Studies of Other Agencies - The Section's personnel participated in a study of the cause of fish tastes sponsored by the North Bay Counties Advisory Council, a study of the data needs for metropolitan urban hydrology sponsored by the U.S. Geological Survey through the ASCE, and a study of the feasibility of separating a sewer system by inserting small sanitary waste pipes in large combined sewers sponsored by the ASCE.

PROGRAM II - TREATMENT PLANT CONTRACTS

- A. Southeast Water Pollution Control Plant; Sludge Filtration System Improvements - Declining production of filter cake at the Southeast Water Pollution Control Plant, coupled with the resultant backlog of solids in the system, initiated a project whose scope not only included adequate production of dewatered solids, but also the improvement of the efficiencies of the dewatering phase to a desirable level of 90 per cent.

As a result, two 17-year-old 350 square foot drum filters will be removed to provide the necessary space for installation of either two 575 square foot coil medium filters or two 650 square foot cloth medium belt filters capable of dewatering 130 gpm of non-elutriated digested sludge utilizing either ferric chloride or ferric chloride and lime coagulation.

Production rates stipulated in the contract documents provide for on-line plant tests to verify the installed capacity. Results of these tests will be deemed to be either non-acceptable, acceptable, but subject to penalty, or acceptable. The estimated contract cost for this project was \$300,000.

Completion of this work will provide sufficient capability to reduce the existing backlog of stored solids as well as to materially reduce the heavy recirculating load of digested solids and improve the abnormally low solids removals at this plant.

- B. Southeast Water Pollution Control Plant; Gas Recirculation Systems and Related Work (Digesters Nos. 8 and 9) - This project is intended to alleviate the phenomenon of progressive diminution of active digestion space and eventual cessation of fermentation. Restoration of digester space in each digester requires the periodic removal of approximately 240,000 cubic feet of scum and sludge-grit mass, which, in the past, has been accomplished by manual mixing and subsequent discharge to the bay. In addition, the modification of internal structures and piping severely damaged by these masses has been necessitated.

The objectives of this project, in addition to achieving high rate digestion, included the development of steady state solids concentration conditions within the digester. The design to accomplish these objectives was based upon previous contract warrantee testing results and model studies and incorporates gas-mix homogenization of the scum forming materials and facilities for the continuous removal of bottom grit-sludge deposit forming materials.

By materially reducing the required cleaning of the digester, the cost of disposal of solids to landfill, as bay disposal of solids, will soon be prohibited, will be reduced. Additionally, the effluent will be upgraded by eliminating periodic releases of solids accumulation from the system. The estimated cost for this contract is \$575,000.

- C. North Point Water Pollution Control Plant; Chlorination System Improvements - Obsolescence and deferred maintenance has resulted in hazardous conditions at the North Point Plant chlorination facilities. These conditions initiated a project to modernize the chlorination facilities and to provide adequate capacities for the recently instituted practice of chlorinating during wet weather periods.

The scope included a flow pacing and a dosage control system to automatically cut in additional chlorinators as required for adequate disinfection as well as providing optimum fail-safe features. Enhanced operational and safety features were of prime design consideration. The estimated contract cost is \$230,000.

The design was reviewed by members of State Departments of Public Health and of Industrial Safety, the City Department of Public Health, Safety Consultant Plant Operation Departments, and the Public Health Department of the University of California. As a result of this review, an assessment of the hazards related to storage of liquid chlorine in San Francisco was deemed a prerequisite prior to expensiture to modernize these facilities. Interim units are being provided to alleviate the present functional hazards.

The study of the hazards related to the storage of liquid chlorine in San Francisco is being pursued through the City's consultant, Professor Jerome F. Thomas of the University of California. The project is being held in abeyance until this study is completed.

- D. Richmond-Sunset Water Pollution Control Plant; Reconstruction of Headworks Facilities - This project, scheduled for construction early in 1969, represents the last of a series of four major contracts for the enlargement and improvement of the Richmond-Sunset Water Pollution Control Plant. Hydraulic capacity of the headworks facility will be increased from 42 to 70 million gallons per day, and improvements to the grit and screenings separation, collection, removal, and disposal facilities will be made.

Screenings removal and chlorination capacity for a flow rate of 105 million gallons per day will insure that flows in excess of plant capacity will be adequately screened and disinfected prior to discharge.

The estimated contract cost for these improvements is \$660,000.

- E. Log Cabin Ranch School; Addition to Sewage Treatment Plant For Junior Facility (Located in San Mateo County) - The 1964 Log Cabin Ranch School bond issue authorizing the expansion of the ranch facilities included funds for additional facilities to accommodate the increases in population.

The scope of the project included increasing the capacities of the secondary treatment processes as necessary to produce the effluent quality required as well as to minimize the operational attentions required. As the effluent of the sewage treatment plant is used for the irrigation of school grounds, it is required by public health agencies to be highly oxygenated and adequately disinfected.

The facilities selected were based upon achieving dependability of operation with a minimum of attention. Several types of plants were investigated from which the contact stabilization type activated sludge plant was selected. This system provides for stabilization of raw sewage during a short contact period and extended storage of activated sludge in a reaeration section. This permits continuous inoculation of raw sewage with fresh activated sludge and insures rapid recovery of the biological system in the event of any shock loading in the contact stabilization section. The waste activated sludge is digested in aerobic digestion section.

Sewage flow emanating from milk barn and hog pen wash down was separated from the domestic waste flow and remained tributary to the existing Imhoff tank - trickling filter treatment facilities. The awarded contract cost for this project was \$69,000. The final contract cost is \$73,878.72, including extras.

- F. Public Law 660 Construction Grants (Amounts Indicated = 30% of Project Cost)

- (1) During fiscal year 1967-68, applications totaling \$375,000 were submitted for construction grants for five sewage treatment works projects. These five projects were approved in the State Water Quality Control Board's 1968-69 priority list.
- (2) In addition, four projects totaling \$342,000 qualified to be carried over from the 1967-68 list.

1968 Sewerage and Water Pollution Control Bond Issue - During fiscal year 1967-68, a \$17,500,000 Sewage and Water Pollution Control Bond Issue was submitted to and approved by the voters. Out of the \$17,500,000 total approved by the voters on June 4, 1968, \$4,000,000 will be used for the replacement and reconstruction of worn and obsolete treatment plant equipment and the modernization of treatment processes to improve the quality of treated sewage discharged to the bay and ocean. Additional funds in the amount of \$1,500,000 were included in the Bond Issue for the construction of an air flotation facility at Baker St. outfall in the event that a demonstration facility grant application was not approved by the Federal Water Pollution Control Administration. Subsequently this grant was approved for two thirds of the project cost up to a maximum grant of \$921,000.

PROGRAM III - SPECIAL PROJECTS CONTRACTS

- A. Southeast Effluent Sewer Extension; Booster Pump Station - Construction of a Booster Pumping Station on the outfall from the Southeast Water Pollution Control Plant is nearing completion.

The function of this station will be dual; primarily to provide hydraulic energy to discharge chlorinated primary effluent to the bay, and to provide, through the use of a bay water intake system, a means of purging the outfall line to reduce incrustation from grease and other materials.

During the purging cycle, which can be either manually or automatically actuated, additional dilution is afforded the primary effluent. A 60 min. purging cycle will produce approximately five volume changes in the 5,000 ft. of outfall piping.

Two 300 horsepower pumps with a combined capacity of 70 million gallons per day will provide the required hydraulic energy.

Operation of this station will be fully automatic with provision for remote operation from the Southeast Water Pollution Control Plant. The awarded contract cost for this project was \$796,800.

- B. Southeast Effluent Sewer Extension; Islais Creek Crossing - The prosecution of this contract was plagued with difficulties. This contract, which was awarded for an amount of \$483,050, was for the construction of a 42 inch and 36 inch diameter pipe line crossing Islais Creek, a distance of approximately 300 feet. These pipe lines are located at an elevation of -65 feet invert and are approximately 40 feet under the mud line.

The design by Pomeroy Engineers, Inc., Consultants to the City, provides for subsoil support of the pipe line without pile support.

The Contractor, Duncanson-Harrelson, Inc., elected to place one pile bent per length of pipe in order to maintain line and grade. Problems of silt movement into the trench necessitated the Contractor to construct an excavation to maintain the trench.

A second major problem developed on the north side of the channel when the grade of the 42 inch pipe was found to be four feet too high. This apparently was caused by an improper angle rotation of the base elbow.

The third and most serious problem, however, developed after the successful hydrostatic test of the 36 inch pipe and the unsuccessful hydrostatic test of the 42 inch pipe. A diver, upon entering the 42 inch pipe, determined that some of the pipe joints had separated as much as three inches. The Contractor elected, with the concurrence of the City and its Consultant, to construct a permanent pile bent support for the two pipe lines crossing the channel.

- C. AWSS Work - During the fiscal year 1967-68, the Sanitary and Special Projects Section used 3,000 manhours on AWSS work. The composition of this work was as follows:

BART work, consisting of the final plans for the Spear Street Vent Shaft, design changes to Powell Street Station, other outstanding contracts, and related investigations and studies, accounted for 1,300 manhours.

Street and highway and sewer AWSS work, such as the Army Street Circle and Southern Freeway required 1,400 manhours.

Maps, records, and miscellaneous studies made up the remaining 300 manhours.

INTERDEPARTMENTAL COMMITTEE ON WATER POLLUTION CONTROL

The Committee continued in its responsibility to act as the central body for receiving and disseminating information relating to water pollution.

A report was prepared and transmitted to the Mayor entitled "Current Water Pollution Problems In San Francisco" and a comprehensive report entitled "Status of Pollution Abatement In San Francisco - July 1968" was nearing completion.

The Committee also reviewed the many task memorandums and reports prepared the the Bay-Delta Study. In addition, it was instrumental in successfully changing the language of a proposed new standard by the State Department of Public Health regarding the use of reclaimed waste water.

The Committee operated on an approved budget during the fiscal year of \$250.

DIVISION OF SURVEYS AND MAPPING

SUBDIVISIONS AND STREET CHANGES

TABLE 1-A

FINAL SUBDIVISION MAPS EXAMINED AND APPROVED:

Mount Sutro Woods No. 2
Map of Brook Apartment

PARCEL MAPS EXAMINED AND APPROVED:

Gold Mine Hill Homes Unit No. 2
Portion of Assessor's Block 2638
Portion of Block 12 Flint Tract
Portion of Sunset Block No. 1039

RECORD OF SURVEY MAPS EXAMINED AND RECORDED:

Block 23 and a portion of Block 22, Tide Lands Tract

STREET DEDICATION MAPS APPROVED AND RECORDED:

Widening of San Jose Ave. - Sadowa St. to Broad St.
Widening of a portion of Washington St. - East of Kearny St.
Extension of Tocoloma Ave. - Northwesterly to James Lick Fwy.
Widening of Bosworth St. - Arlington St. to Elk St.
Widening of 30th St. - At Mission St.
Widening and extension of Geneva Ave. - Tara St. to Ocean Ave.
Widening of Worcester Ave. - At Alemany Blvd.
Widening of Crestmont Drive - East of Mt. Sutro Woods No. 1
Widening of Eucalyptus Drive - Westerly of 19th Ave.
Extension of Guy Place - Southeasterly to Lansing St.
Opening of Mirando Way - Rotteck St. to Cuvier St.
Opening of Still St. - Gorham St. to Rousseau St.
Widening of Eucalyptus Drive - Westerly of 19th Ave.

STREET VACATIONS APPROVED:

Addison St. - At Farnum St.
Lombard and Montgomery Sts.
Hester Ave. - At Bay Shore Blvd.
Hamerton Ave. - South of Bosworth St.
Holyoke St. - Woolsey St. to Karen Court
Dunbar Alley - At Merchant and Washington Sts.
Carolina St. - Between 19th and 20th Sts.
Broadway - At Broadway Tunnel
Foote Ave. - Southeasterly of San Jose Ave.
Santa Barbara Ave. - At Head St.

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS:

Richardson Ave. - Broderick St. to Lyon St.
Head St. - Shakespeare St. to the County Line
Mission St. - The Embarcadero to Steuart St.
Sixteenth St. - Potrero Ave. to Bryant St.
Grand View Ave. - 24th St. to Clipper St.

DIVISION OF SURVEYS AND MAPPING

FIELD SURVEYS

TABLE 1B

NUMBER OF SURVEYS

A total of 204 field surveys, undertaken and completed by the six survey parties of the Division's Field Engineering Section, comprised the following:

Public Improvement Surveys for:

Public Assessments and Private Contracts	60
Contracts Financed by City	132

Site and Lot Location and Topographic Surveys for:

Bureau of Architecture	2
Recreation and Park Department	10

Survey fees received by the City for Public Assessment and Private Contracts totaled \$9,950.00.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 69.14 miles, in addition to which 69.2 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths except not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	11.13 miles
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Line and grade for construction of:

Sewer and Drainage systems	3.16 miles
Street Grading	3.84 miles
Pavements and curbs	2.91 miles

Line, grade and cross sections for reconstruction of existing:

Pavements and curbs	5.44 miles
---------------------------	------------

Subsidence Areas	2.40 miles
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Slide Areas	0.85 miles
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Block, Site and Lot:

Surveys (boundary lengths)	5.48 miles
Resurveys (frontage lengths)	0
Reference marks (frontage lengths)	1.04 miles
Monument lines checked	12.92 miles
Monument lines set (new)	13.34 miles
Grade Studies	0
Miscellaneous surveys (not included above)	4.26 miles

Post-Construction examination of:

Street Grading	0.36 miles
Sewer and drainage systems.....	0.79 miles
Pavement and curbs	1.22 miles

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 153 survey monuments were set or reset, and referenced, and 14 monuments examined for repair and, if necessary, repaired. Precise level bench marks were established and elevations on existing bench marks were checked on 442 intersections which required the running of approximately 55.8 miles of precise levels, in addition to the aforementioned survey mileage.

DIVISION OF SURVEYS AND MAPPING

MISCELLANEOUS SURVEYS AND STUDIES

TABLE 1C

SURVEY PLATS PREPARED:

San Francisco General Hospital - Utility Location				
Fire House Engine No. 17 - Boundary and Topographic Survey				
District Health Center No. 4 -	"	"	"	"
George Christopher Playground-	"	"	"	"
John McLaren Park -	"	"	"	"
A. Lincoln High School -	"	"	"	"
Lake Merced Shoreline -	"	"	"	"
John McLaren Park Ptns. -	"	"	"	"
Bay View School -	"	"	"	"
Selby - Palou Park -	"	"	"	"
John McLaren Park Ptns. -	"	"	"	"
Fairmount Plaza -	"	"	"	"
Brooks Property -	"	"	"	"
John McLaren Park Ptns. -	"	"	"	"
" " " "	"	"	"	"
Marina Parking Site -	"	"	"	"

OTHER MISCELLANEOUS STUDIES:

More than sixty (60) miscellaneous drawings were prepared in connection with property acquisitions and dispositions; street openings, widenings, and vacations; and easement acquisitions and abandonments.

More than twenty-five (25) reports regarding City interest in actions to quiet title were made to the City Attorney's office.

Ninety (90) descriptions for deeds to and from the City involving the Department of Public Works were checked.

Eight (8) appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least twenty percent (20%) of the property owners within a radius of 300 feet of the property involved so as to qualify the appeals for consideration by the Board of Supervisors.

SUPERVISORY PERSONNEL
AS OF JUNE 30, 1968

Robert C. Levy, City Engineer
Ross T. Shoaf, Assistant City Engineer

<u>Division and Section</u>	<u>Person In Charge</u>
STREETS AND HIGHWAYS	W. J. Scruggs, Senior Engineer
Street Improvement Section	H. G. Louie, Engineer
Highway Section	L. T. Tom, Engineer
Street Reconstruction Section	L. T. Tom, Engineer
DESIGN	G. Galli, Principal Engineer
Structural Section	G. T. Jeong, Senior Engineer
Sewer Section	B. S. Martin, Senior Engineer
Sanitary and Special Projects Section	A. O. Friedland, Senior Engineer
Mechanical Section	W. F. Eisenberg, Senior Engineer
Electrical Section	A. E. Tanner, Senior Engineer
Contract Preparation Section	C. T. Beggs, Engineer
Standards, Utilities, and Estimates Section	J. J. Walsh, Jr., Engineer
Administrative Section	E. J. Sierra, Admin. Engineer
RECREATION & PARK ENGINEERING	D. Martin, Senior Engineer
Office Engineering	W. Person, Engineer
Field Engineering	C. J. Lynch, Survey Party Chief
SURVEYS AND MAPPING	S. C. Gerugthy, Senior Engineer
Administrative and Records Section	A. F. Hollett, Associate Engineer
Office Engineering Section	G. Q. Woo, Engineer
Field Surveys Section	W. E. Bryan, Chief Surveyor
CONSTRUCTION	W. C. Ewing, Senior Engineer
Inspection Section	T. J. Ford, Engineer
Testing Section	W. E. Pearson, Assoc. Materials Engineer

SUPERVISORY PERSONNEL (Continued)

<u>Division and Section</u>	<u>Person In Charge</u>
TRAFFIC ENGINEERING	W. Marconi, Senior Traffic Engineer
Legislative Section	C. M. Lang, Associate Engineer
Design Section	R. Evans, Assistant Engineer
Planning Section	N. Bray, Engineer
Operations Section	G. Hansen, Assistant Engineer
CONTRACT ADMINISTRATION	F. Giusto, Admin. Engineer
LIAISON ENGINEER	H. H. Beneke, Associate Engineer
OFFICE MANAGEMENT	F. R. Nichols, Head Clerk

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR:

<u>Division</u>	<u>July 1, 1967</u>	<u>June 30, 1968</u>	<u>Change</u>
ADMINISTRATION	7	7	-
STREETS AND HIGHWAYS	40	39	-1
RECREATION & PARK ENGINEERING	16	19	+3
DESIGN	109	110	+1
SURVEYS AND MAPPING	41	39	-2
CONSTRUCTION	39	43	+4
TRAFFIC ENGINEERING	27	29	+2
OFFICE MANAGEMENT	14	13	-1
TRANSIT TASK FORCE	0	5	+5
TOTAL	293	304	11
(1) Employees in Professional Classifications			125
Employees in Sub-Professional Classifications			146
Employees in Clerical Classifications			33

PERSONNEL (Continued)

PAYROLL:

The following tabulation shows the number of employees and total payroll charged to General, Project and Road Funds:

SOURCE OF PAYROLL FUNDS	EMPLOYEES 1967-68	PAYROLL 1967-68
General Fund		
Budget Payroll	72	\$ 887,736.09
Project Funds (Gas Tax, Bond, General, etc.)	203	\$ 2,257,494.04
Road Fund - Traffic Engineering	29	\$ 269,328.32
	<hr/>	<hr/>
TOTAL PERSONNEL & PAYROLL	304	\$ 3,414,558.45

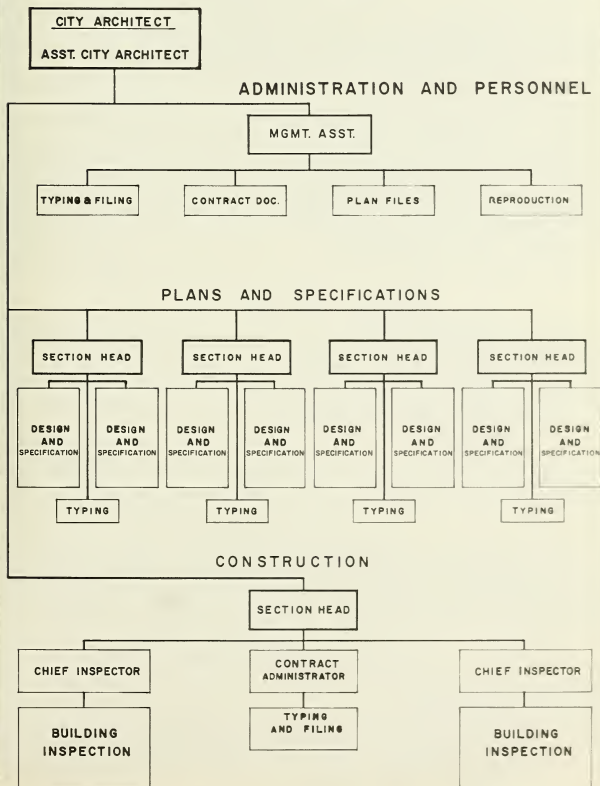
RETIREMENTS:

During the past year, the following employees were retired and recognition is given for their faithful service to the organization:

HARRY D. RAUB	8-1-67	Survey Party Chief	16½ years
ERIC O. DOERING	8-1-67	Civil Draftsman	2 years
JAS. P. BLACK	7-1-67	Accountant	3 years
REGINA LEVY	1-1-68	Stenographer	18½ years
CLIFFORD J. GEERTZ	1-1-68	City Engineer	42 years
JAMES FROST	4-1-68	Survey Party Chief	24 years
FRANCES BUCHANAN	6-1-68	Clerk-Typist	4 years
PIERRE B. DENSEN	6-7-68	Construction Inspector	7 years

BUREAU OF ARCHITECTURE DEPARTMENT OF PUBLIC WORKS ORGANIZATION CHART

JULY 1 1968



BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

The Bureau of Architecture has charge, supervision, and control of the construction of new public buildings, and the modernization and alteration of existing public buildings, under plans duly approved by the various departments.

Once the need for a building project is established, the Bureau assists the requesting department in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the activities and services to be performed in the building, the number and type of employees who will be housed in the building, the number and type of public to be served, and related data. The Bureau then prepares preliminary drawings, specifications, and estimates of cost, and when funds are available, prepares or supervises the preparation of the final drawings, specifications, and estimates. The bid forms are then prepared and bids are requested by advertisement in the official newspaper. After bids are received and analyzed, recommendations are prepared for award of contract, and the construction contract is awarded and certified. Bureau personnel inspect the construction as it progresses, certify progress payments each month, and, upon completion of the job, in conformance with the contract, the final payment.

The amount of work in the Bureau as of July 1, 1967 was as follows:

1. Bond Issue Work - Plan and Specification Stage	\$47,718,982
2. Budget Work - Plan and Specification Stage	4,223,068
3. Work Under Construction (60 Jobs)	<u>12,151,000</u>
Total	\$64,093,050

ORGANIZATION

The organization of the Bureau is broken down into three separate divisions: Administration, Plans and Specifications, and Construction. The responsibilities of these divisions are further defined as follows:

ADMINISTRATION DIVISION

Section I - Personnel

This section is responsible for personnel matters, all incoming and outgoing correspondence, answering various questions of architects, contractors, and public, and for staffing the Bureau's main counter.

Section II - Plan Files

This section is responsible for requisitions and procurement of blueprints, assembly of blueprints, specifications, and bid forms, the filing of tracings, blueprints and specifications, and related work.

Section III - Contract Documents

This section is responsible for the assembly, checking and issuance of the contract documents to contractors who prepare bids for the various jobs.

PLANS AND SPECIFICATIONS DIVISION

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by a senior architect who maintains formal and informal relationships with the client agency and supervises the personnel assigned to him for the preparation of the drawings and specifications.

CONSTRUCTION DIVISION

This division supervises and inspects all work under construction. The responsibilities of the Construction Division include inspection of work for conformance with contract documents, progress and validity of the contract work, contract payments and certification of completion of the contract. The Construction Division investigates and recommends disposition of contract claims.

This division is headed by a senior architect and there are 2 architectural administrators who assist him in the administrative responsibilities. The division also includes a chief building inspector, who supervises the activities of 15 building inspectors.

As of July 1, 1968, there were 60 jobs under construction in the total amount of \$12,157,000. Representative work under construction is pictured below.



Educational Services Building - City College of San Francisco



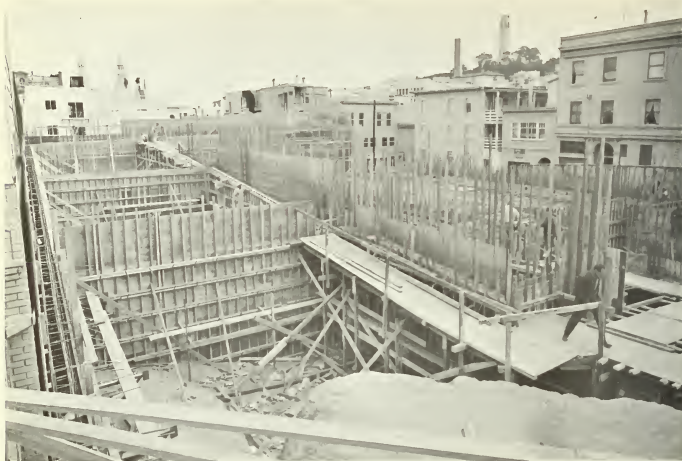
Treasure Island School



El Dorado School Addition



Buena Vista School



Central Police Station and North Beach Parking Garage

PROPOSED BOND ISSUES

Various bond issue proposals were under consideration and preliminary data had been assembled on the following bond issues:

1. New Civic Courts Building \$26,000,000

Renovate City Hall as Administrative Bldg.
Renovate 450 McAllister St. and 101 Grove St.

EBS Associates completed a study for the Civic Center Technical Coordinating Committee in June 1967 which recommended that the above program be carried out as expeditiously as possible. While it will require further study prior to going on the ballot, it is a start in the right direction. It is also possible that this project may be financed by a non-profit corporation.

2. New Public Library \$14,000,000

The present central library is not properly designed to serve as a modern library, and a completely new building is needed.

3. Recreation and Park Bond Issue \$20,000,000

This bond issue was defeated in 1964 and 1968. It is badly needed now in order to modernize and update recreation facilities and the need has grown more acute over the succeeding years. It will be again presented to the voters in November 1968, in a reduced form approximating \$5,500,000.

4. Other Bond Issues Under Consideration are:

- a. San Francisco Unified School District
- b. Palace of Legion of Honor
- c. Convention Facilities
- d. Sports Center
- e. Further development of deYoung Museum
- f. Youth Guidance Center
- g. Social Services
- h. Musical Arts Building

SCHOOL SECTION

A. 1964 School Bond Issue \$31,464,500

This bond issue will provide four completely new schools, major additions to two new schools, two new buildings for City College, replacement of four elementary schools, replacement of various temporary classrooms with permanent classrooms, and miscellaneous rehabilitation and modernization, in addition to furniture and equipment and miscellaneous costs. The work has progressed favorably and, as of June 30, 1968, the status was as follows:

1. Work Completed Sixteen Projects	12%	\$ 3,700,821.79
2. Work Under Construction Eleven Projects	19%	5,955,400.00
3. Final Drawing Stage Eight Projects	28%	8,815,910.00
4. Preliminary Stage Twelve Projects	30%	9,558,472.00
5. Miscellaneous Costs, Plans and Specifications, and Unallocated	11%	3,433,896.21
Total		<hr/> \$31,464,500.00

One school, Diamond Heights Elementary School, was completed in August and occupied by the Unified School District at the beginning of the 1967 fall term. A picture of this new school follows:



Diamond Heights Elementary School

B. School District Work

In addition to the Bond work, the Bureau also processed a great amount of non-bond projects for the School District. Most of this work, which is detailed in Appendix No. 2, is essentially alteration and maintenance projects. However, construction began on one new school, financed by Federal subvention, Treasure Island Elementary School. Also preliminary work was beginning on new Hunters Point Schools which may be financed by a new bond issue and a new Presidio School and Treasure Island School which will probably be financed by Federal subvention.

HEALTH DEPARTMENT SECTION

During the fiscal year 1967-68, this section was primarily engaged in preparing plans, specifications and estimates for the alteration and modernization of existing buildings and project management of new building projects for the Health Department.

A. Major Alteration and Modernization Projects

1. Temporary Quarters for Patients
Ward Buildings 50 and 70
San Francisco General Hospital \$184,954

Three wards of T.B. Buildings 50 and 70 are being remodeled to receive patients from Building 60, the first structure to be demolished under the new San Francisco Medical Center Program. Facilities to be provided are a Communicable Disease Ward (71); a Female T.B. Patients Ward (75) and a Respiratory Intensive Care and Research Facility Ward (53).

2. Remodeling of Psychiatric Building 90
San Francisco General Hospital \$230,000

The remodeling of this five story building will correct code violations, inefficient space layout, deficient electrical and mechanical systems and the poor condition of all finishes. Space must also be provided for patients who will be relocated from two ward floors of Building 60 which will be demolished to clear the site for construction of the new Medical Center.

3. Remodeling of Diet Kitchen
Hassler Hospital \$ 56,008

When Hassler Health Home was licensed as a hospital in late 1964, the patient occupancy load increased requiring the enlargement of the Diet Kitchen which is centrally located in the large ward area. This facility will conform to State sanitation standards and will supplement the Main Kitchen located several buildings away, in the preparation and distribution of food to patients. Completion is scheduled for October 1968.

B. New Building Projects

1. District Health Center No. 3
Bayview Health Center
1525 Silver Avenue Corner Barneveld \$887,800

This District Health Center serving the Hunters Point, Alemany and part of the Mission Health Center Districts was completed on October 4, 1967. This 23,000 square foot reinforced concrete structure has two floors of clinics and office and a full basement for mechanical rooms and parking.

A photograph of the completed health center, which was taken in October, 1967, is shown below:



BAYVIEW DISTRICT HEALTH CENTER NO. 3

2. District Health Center No. 5
Sunset-Richmond Health Center \$802,339

This Health Center, built on City-owned property to serve the outer Richmond and Sunset communities, is scheduled for completion by September 15, 1968. It is a two-story, reinforced concrete structure of some 17,400 square foot area, with a drilled-in-place piling foundation and designed for the addition of two more floors.

3. District Health Center No. 4
Chinatown-North Beach Health Center \$1,785,922

This three-story structure will be the first public building in the San Francisco area to use air rights over a public street. It also is the last of five centers recently constructed to provide Public Health Services throughout the city.

A Medical Aid Station with ambulance facilities on the first floor will partly supplant the Harbor Emergency Hospital, scheduled to be razed under the Golden Gateway Development Program. The remaining two floors will contain the Health Center facilities. Completion is scheduled for November 1969.

Perspective drawing of the new Health Center No. 4 and Emergency Medical Aid Station, which is just getting under construction is shown below:



DISTRICT HEALTH CENTER NO. 4, CHINATOWN-NORTH BEACH HEALTH CENTER

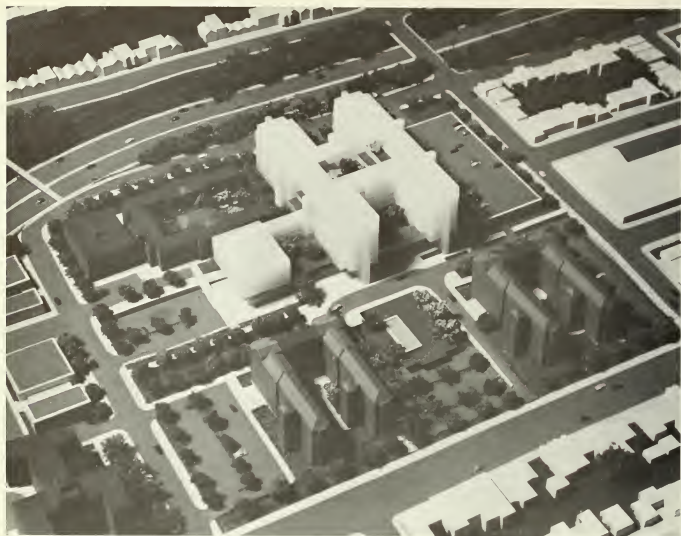
4. San Francisco Medical Center
Bond Issue

\$33,670,000

Since approval of this bond issue in the fall of 1965, the design development of this project has been progressing satisfactorily. The schematic drawings were approved April 2, 1968. The preliminary drawings and specifications are being prepared under an accelerated design program with completion scheduled for September 20, 1968.

The hospital building will provide 784 beds for medical, surgical and psychiatric patients with comprehensive ancillary facilities and services. It is estimated the construction will be completed by September 1973.

A photograph of the model based on the approved schematic drawings, is shown on the following page:



SAN FRANCISCO MEDICAL CENTER

5. Other Health Department Projects

Alterations to Building No. 9, converting it for out-patient use, San Francisco General Hospital at a construction cost of \$179,329 and a new building for medicare office staff was completed on the hospital grounds at a cost of \$62,388.

FIRE DEPARTMENT SECTION

1964 Fire Department Bond Issue \$4,890,000

The construction work of this bond issue has not progressed as rapidly as we had hoped because the Fire Commission is re-evaluating the locations and sizes of all of its Fire Companies. This re-evaluation may result in larger Firehouses in some locations, and possibly, the elimination of other Firehouses. In any event, as of June 30, 1968, the status of the Bond Issue work was as follows:

I. Completed (34%)		\$1,681,000
1. Headquarter's Building	\$1,115,000	
2. Fire Station Engine Co. No. 28	256,000	
3. Fire Station Engine Co. No. 7	310,000	
II. Under Construction (10%)		477,500
1. Fire Station Engine Co. No. 17 and Truck Co. No. 1		
III. Out to Bid (1.5%)		65,500
1. Fire Station Engine Co. No. 46		
IV. Final Drawing Stage (8.5%)		394,900
1. Fire Station Engine Co. No. 43		
V. Projects Delayed for Lack of Building Sites (28%)		1,384,200
1. Fire Station Engine Co. No. 16	278,300	
2. Fire Station Engine Co. No. 36	351,300	
3. Fire Station Engine Co. No. 33	355,500	
4. Fire Station Engine Co. No. 37	399,100	
VI. Projects Delayed for Other Reasons (14%)		699,300
1. Fire Station Engine Co. No. 3	384,700	
2. Fire Station Engine Co. No. 8	314,600	
VII. Contingent Fund (4%)		242,640
	TOTAL	\$4,945,040

1964 Bond Issue, Improvements, Log Cabin Ranch School for Boys, LaHonda, San Mateo County \$1,300,000

The main phase of this project, the Hidden Valley Ranch School, for boys 10 to 14 years of age, was completed on schedule and dedicated July 30, 1967.

The new school was planned and the buildings designed by Bureau of Architecture personnel. The water system, sewage treatment facility and the access road were handled by Bureau of Engineering. The Bureau of Architecture also supervised the selection of furnishings and equipment.

The school accommodates 100 boys and comprises four large semi-fireproof buildings. The project is now in full operation.

Three hundred thousand dollars of the cost has been returned to the City treasury through State subvention in accordance with the California State Youth Authority program for county camps.

Pictures of the completed facility follow:



HIDDEN
VALLEY
RANCH
SCHOOL
FOR
BOYS



In addition to the major projects described above, this section also handled alterations and modernization at the Hall of Justice in excess of \$200,000, various projects for the Recreation-Park Department including a bowling green clubhouse, restoration of the Japanese Teagarden entrance, new fieldhouse at Garfield Square, various City Hall projects, the new Gateway to Chinatown, which is just getting under construction, and various jobs at the Museums, Academy of Sciences, Veterans Building and Opera House.

MISCELLANEOUS SECTION

During the fiscal year this section processed the following work:

COMPLETED PROJECTS

1. 1959 Palace of Fine Arts Bond Issue \$1,800,000

This project, which involved a total expenditure of approximately \$7,750,000, was completed and opened with a festival in October 1967. The project was financed with the \$1,800,000 bond issue, a \$2,000,000 State grant, budget funds in the amount of \$850,000 and the balance, in excess of \$3,000,000 from private donations.

2. Excelsior Branch Library

This branch library, located at Cotter and Mission Streets, was completed on July 24, 1967, at a construction cost of \$210,205. Photograph of the completed building follows.



EXCELSIOR BRANCH LIBRARY

SUPERVISORY PERSONNEL

AS OF JUNE 30, 1968

City Architect Charles W. Griffith
Assistant City Architect Hugh W. Hiatt

ADMINISTRATION

Management Assistant Richard De Martini

DESIGN

I. School Work

Senior Architect Norman Karasick
Architect Harry Squeri
Architect Orlando Orlandi

II. Health Department Work

Senior Architect Robert Malerbi
Architect Al Crowe

III. Fire Department

Architect Walter Krohn

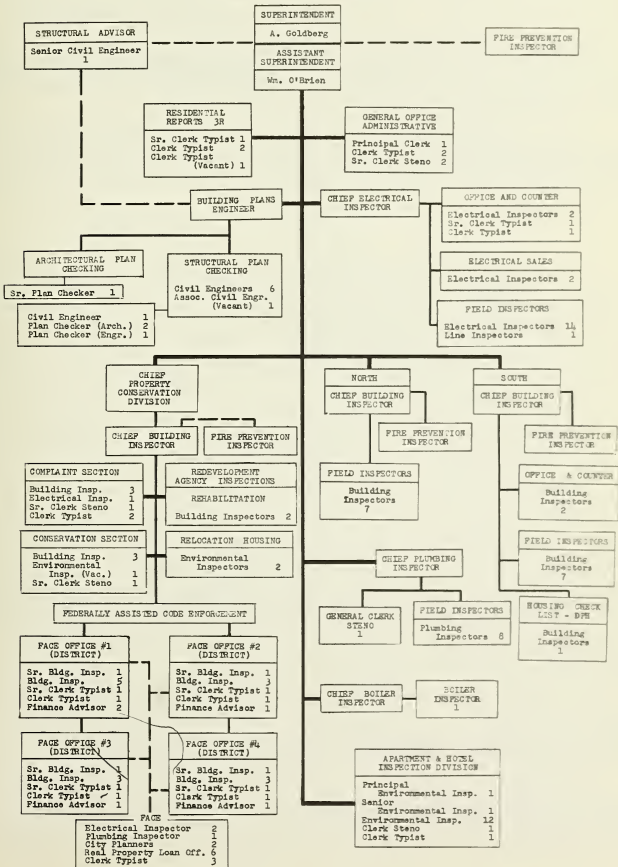
IV. Miscellaneous Other Work

Senior Architect Clement Mullins
Architect Francis Chinn
Architect Arthur Lee

CONSTRUCTION

Senior Architect John R. Wilkinson
Chief Building Inspector Robert J. O'Connell

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION
JUNE 30, 1968



BUREAU OF BUILDING INSPECTION

A. Goldberg, Superintendent

BUREAU ADDS STAFF FOR MULTIPLE RESIDENCE INSPECTIONS

On July 1, 1967, twelve Environmental Health Inspectors with supervisory personnel and clerical staff were transferred to the Bureau. This group was designated as the Division of Apartment and Hotel Inspections and was given a concentrated supplementary training course.

The primary objective of this Division is to provide and maintain safe and sanitary housing for the public as part of the Workable Program commitment for Federal funding of projects.

This program utilizes the following order of priority:

1. Complaints
2. Building Permit applications processing for sanitary requirements
3. Complete Housing Reports
4. Follow through of active housing cases
5. Routine inspections

A system of automatically rating multiple residential occupancy structures on a priority scale was developed and initiated on a city-wide basis in 1967. This system serves a multi-fold purpose in that it will provide for a uniform city-wide code enforcement program in accordance with Federal requirements. This will also allow the development of a priority profile of each sub-census tract to permit better distribution of the work. Furthermore, this system will provide for an orderly progression of code enforcement in which the worst or most hazardous structures are brought into code compliance first, followed by those structures with decreasing hazard significance. An orderly process of code enforcement is especially desirable to provide equitable treatment to building owners as well as providing for handling the construction cases first. Finally, this priority system will provide for a satisfactory method by which inspection districts can be properly aligned according to total work loads.

The Division was assigned an additional duty which involved the surveying and reporting of fire protection devices in multi-residential occupancy structures on a city-wide basis. Such reports are forwarded to the Fire Department for their annual maintenance inspections.

A procedural manual is being developed. Electronic Data Processing for reporting has not been adopted by this Division since the significant data required has been readily obtainable via tabulating methods which are EDP oriented. Therefore, if EDP reporting is to be utilized in the future, the change-over can be effected with minimum effort.

AMERICAN SOCIETY FOR TESTING MATERIALS ACTIVITIES

The Bureau has been active as a member of the American Society for Testing Materials E-5 committee. This committee is charged with the responsibility of setting fire test standards which are used by Building Officials nationwide.

In its work on this committee the Bureau has with others exerted influence toward improvement of the fire test standards notably in the adaptation of temperature criteria as part of a fire test.

It is with some satisfaction then that we report the ASTM has forwarded ballots to its members relating to the adoption of such criteria.

The Bureau will continue its work to improve such standards as well as continue the benefits derived and information gained by membership on such a committee.

BUILDING ACTIVITY RELATED TO BARTD

While the Bay Area Rapid Transit District construction is largely in public streets and, thus, is not involved with the Bureau of Building Inspection, a great deal of related work is generated for buildings on private property. The Buildings adjacent to BARTD subway excavation require underpinning or other protection of their columns. Existing sub-sidewalk basements require the construction of new closure walls. In order to accommodate the BARTD construction schedule the Bureau has worked effectively with that agency as well as the Market Street Task Force to implement procedure directed at expediting the building permits for such work.

CODE ACTIVITIES

Building Code and Housing Code Near Completion

At the close of the fiscal year, the Bureau's effort toward the creation of a new Building Code and Housing Code was close to completion.

These codes are being written with the cooperation and assistance of interested groups from industry, the professions, labor and government. Effective agreement has been reached with these groups on the great majority of topics under discussion.

It is anticipated that these documents will be forwarded to the Board of Supervisors for their consideration in mid-September and hopefully become enacted into law by November.

The Building Code reflects the latest developments and thinking regarding modern building technology.

First Draft of Electrical Code Transmitted.

Work continued on the Electrical Code thru the agency of the Electrical Code Advisory Board. This Board is composed of representatives of all representative electrical groups. This fiscal year saw the completion and first transmittal of this code. It is anticipated that the electrical code will be completed during this fiscal year.

BANK OF AMERICA WORLD HEADQUARTERS BUILDING RISES ON SAN FRANCISCO SKYLINE.

The San Francisco skyline has recently undergone several changes. Notable among these is the new Bank of America World Headquarters Building, the West's tallest building and one of the country's largest all welded structures.



BANK
OF
AMERICA
WORLD
HEAD-
QUARTERS

This structure is located in the block bounded by Montgomery, Kearney, Pine and California Streets. Measuring from the sidewalk level are 52 stories rising 778' with six floors below sidewalk level, bringing the total dimension from roof to lowest basement to 832'. The project contains about 25,000 tons of structural steel in an all-welded seismic resistant frame. The welding techniques involved included the most advanced available in the state of the art. The entire exterior walls of the building are composed of mahogany colored granite slabs quarried in Cold Springs, Minnesota. The hanging of these granite panels required imposition of special inspection procedures worked out between the Bureau and the design structural engineer.

The building is founded on concrete caissons poured in place and socketed into the supporting rock. The use of this type of foundation eliminated the necessity of the usual noisy pile driving.

Other high rise construction is continuing in downtown San Francisco reflecting a healthy economic condition for the present and future.

BOARD OF EXAMINERS ACTS ON CHINESE CULTURAL CENTER:

During the past year, the Chinese Cultural Center complex at the site of the old Hall of Justice was submitted to the Bureau for Approval. This structure incorporated details which did not comply with certain technical provisions of the Building Code with regard to earthquake resistant provisions. Therefore, the applicant asked for and was granted a hearing before the Board of Examiners.

The Board then exercised its discretion to allow this building's construction subject to conditions specified which would provide a structure as safe as one contemplated by the provisions of the Building Code.

Included in the conditions of acceptance was the review of the structure by an advisory panel of engineers.

The permit, therefore, was issued and construction is anticipated to begin in the early fall of 1968.

POTRERO HILL

During construction of the Southern Freeway, skirting the East side of Potrero Hill, a ground movement between 18th and 20th Streets along the east side of Pennsylvania Avenue developed.

In this location an excavation of sixty feet was made to accommodate the freeway right of way. The resulting slope was to be supported by a unique retaining structure.

Unanticipated movement of a large mass of the ground became apparent in the fall and increased during the rainy season, endangering St. Theresa's school and seventeen dwellings.



MUTUAL BENEFIT LIFE
BUILDING

#1 CALIFORNIA STREET

S.F. ART
INSTITUTE
800 CHESTNUT



The State assumed responsibility for this unfortunate situation. As the buildings developed distress the State sent in contractors to provide remedial relief and, eventually, relocation of most of the occupants involved.

Further, the highway district designed and constructed large structural steel bents to protect the Southern Pacific tunnel and stabilize the hill against any further movement.

During this period, the Bureau maintained close surveillance of the ground movement with a view to protecting the occupants of the involved structures.

STRUCTURAL ENGINEERS PREPARE FOR COMPUTER USE

Consulting design engineers are increasingly making use of electronic computers for the solution of complex problems involved in frame analysis of high rise buildings.

Since the Bureau's Engineers are charged with the responsibility of checking all structures for compliance with the Building Code it has been found necessary that they have access to a large capability electronic computer.

Investigations toward this end have been conducted and an economical solution has been discovered. The Bureau intends to make use of a large capacity computer on a rental basis shared with other users. A small station is to be installed in the Bureau office which is connected to this computer by the use of telephone service.

This program is scheduled to be effective in July 1968.

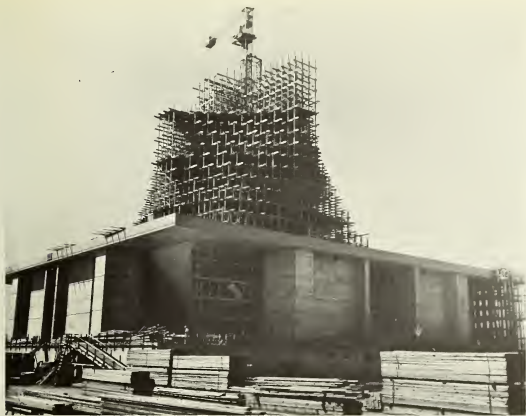
SUPERINTENDENT RECEIVES CITY ENGINEER APPOINTMENT

On January 1, 1968, the Bureau of Building Inspection Superintendent, Robert C. Levy was appointed City Engineer of the City of San Francisco. The Superintendent's post was filled by Alfred Goldberg who had served as Assistant Superintendent for the previous eight years.

THE SEQUOIAS
GEARY & LAGUNA



240 DOLORES ST.



ST. MARY'S
CATHEDRAL
GEARY & GOUGH



CROCKER LAND BLDG.
POST & MONTGOMERY

PROPERTY CONSERVATION DIVISION

FACE: Progress at Midpoint

As of May 31, 1968, the FACE Program (Federally Assisted Code Enforcement) reached the mid point of its two and 2/3-year time span. (Nominally, a three-year program, it took four months to recruit and train personnel, open field offices and so forth.) The current program operates in four neighborhoods: Arguello Park, Buena Vista Heights, Glen Park and Great Highway. The latter three were already designated as concentrated code enforcement areas as provided for in the City's Housing Code, when FACE began. FACE has made it possible to accelerate the code enforcement process by adding staff and a new area and by providing low interest loans, rehabilitation grants and relocation benefits to owners and tenants. Another benefit to the neighborhood is that FACE brings about public improvements which help to maintain the areas' desirability while private properties are brought up to standard. Approximately one third of the program's cost goes into street improvements which may include beautification projects as well as paving, street lights, and the like.

Code Enforcement Progress

The four FACE areas contain 3039 buildings, of which seventy-seven percent (2346) have had initial inspections. Thirty-nine percent (1177) have been completely processed, that is, declared in "Satisfactory Code Compliance." Almost a third of these were structures with no violations, the rest have been brought up to code. The remaining 39% form the office workload of cases in varied stages of progress, as follows:

STATUS OF CURRENT WORKLOAD

Inspection report in preparation	92	8%
Backlog: Owner seeking delay or awaiting FACE services	645	55%
Cases pending: Appeals, Abatement, Condem- nation or demolition proceedings	75	6%
Plans and Specifications in preparation	101	9%
Financing in Progress	71	6%
Construction in Progress	<u>185</u>	<u>16%</u>
	1169	100%

A large backlog can be expected at this point in the program. All initial inspections must be made by January 1, 1969, if owners are to be given at least nine months to do the compliance work. Hence, the rate of in-

pections exceeds the program's ability to process cases until January. Subsequently, the backlog will shrink as the inspectors serve those wishing FACE assistance. A significant part of the backlog consists of cases where inspections were made under the City's unassisted program prior to FACE. The popularity of FACE services and financing has made many inspectors defer action on those who aren't in a rush to comply, in order to attend to the people who are eager to proceed. As the program approaches its conclusion, the procrastinators will receive more attention to assure their compliance. The City is required to accomplish 95% compliance before the program is phased out in these areas.

Cases pending administrative actions normally constitute about 6 percent of the workload.

The Housing Appeals Board is empowered to modify code requirements or to grant time extensions for cases with unique circumstances. Experience in the initial 15 months indicates that at the level of current staffing, the program can process 1500 structures per year. With this in mind, a supplemental application has been filed with HUD to commence three new areas late this year.

Code Violations and Compliance Costs

Enforcement of Housing Code regulations does not mean that a structure is brought up to present day Building Code standards. The Housing Code often has less stringent requirements than those applying to new construction. In general, what was considered as legal when a building was built retains this legal status even though today's standards are higher. Exceptions to this rule are related to basic health and safety hazards which are covered by specific retroactive requirements.

For those 300 jobs involving Federal loans, the average cost of required corrective work has been \$2,978 per structure, or \$1,549 per dwelling unit. With a 3% FACE loan, \$1,500 can be borrowed for \$8.33 per month and rent increases can be minimal. For all 800 jobs having code required work, the average cost of compliance was \$350 per unit.

Dislocation due to rent increases has not been a problem in the current program. Fourteen households have been dislocated, principally due to elimination of illegal rooms or apartments. Thirteen -- seven families, five single persons and one senior citizen -- were relocated in standard housing with assistance by the City's Relocation Service.

One individual chose to move into a substandard apartment and was, therefore, ineligible for relocation payments.

In very few cases is the cost of rehabilitation so high as to be an unwise investment. Such cases most often occur where an old house is to be replaced by an apartment or other income producing use. As of May 31, twelve buildings were demolished and two more were slated for demolition: A rate of 6/10ths of one percent of the buildings inspected.

PUBLIC IMPROVEMENTS

The City contributes one third of the cost of the code enforcement program. The program can include certain kinds of public improvements to make the neighborhood a desirable environment. The improvements are limited to streets, pavement, sidewalks, lighting, trees, signs, traffic signals and the like. The Federal Government approved \$970,000 in proposed improvements in the program budget. The largest single project included was the widening and landscaping of Bosworth Street in Glen Park, two-thirds complete as of this writing.

Public Reaction to FACE

The program has overcome skepticism and fears which are to be expected at the initiation of a new program, and has won widespread community support. Some people simply could not believe that they would not have to repay the Federal Government for a rehabilitation grant or that a lien would not be put on their property. Others feared that Federal inspectors would impose Federal code regulations. Many feared harsh treatment from high-handed City officials, threats of condemnation, demolition orders, legal entanglements and so forth. People have found things quite the opposite. Judging from the complimentary remarks of numerous property owners and testimony volunteered at public meetings, people are pleased.

Much credit goes to the Federal Government for structuring the program and to the personnel in HUD whose helpful attitudes have made the program work. Day-to-day cooperation in processing loans has been a key factor in the program's success.

New FACE Proposals

An amended application for an additional \$500,000 code enforcement grant was submitted to HUD in May 1968 for 3 new FACE areas, namely: Alamo Square, Bernal Heights and Duboce Triangle. Numerous public meetings were held in these neighborhoods and before the Board of Supervisors. Substantial support for the program was voiced by the public.

COMPLAINT SECTION

Complaints from all divisions of the Bureau of Building Inspection concerning violations of San Francisco Codes are channeled to this Section, which has the task of correcting any building condition which would jeopardize the safety of its inhabitants or the community. All complaints are referred to this division on a priority basis - 1st priority being health and safety. All complaints are carefully investigated with every effort made to protect both the interests of the property owner and the tenant.

Complete, concise reports are prepared for the owner listing all violations discovered during the course of inspection. Consultation between the inspector assigned to the case and the property owner is arranged



BEFORE
(Rear)



AFTER
(Rear)



BEFORE
(Front)



AFTER
(Front)

This picturesque two-family dwelling, built as a ranch house in the early 1850's, was condemned as a public nuisance and scheduled for the bulldozer's blade. However, it was rehabilitated and is now structurally sound, while retaining much of its early Western charm.



Complaint Department
case, before code compliance.

Complaint Department
case, after code compliance.



where the inspector presents the most economical, yet acceptable, means of compliance.

Through this system, many buildings described once as unfit for human habitation have been restored so as to enhance rather than detract from the community.

Project Rehabilitation Inspections

Two Building Inspectors work full-time on a work order to the San Francisco Redevelopment Agency to perform inspections related to the rehabilitation of buildings in the YBC and A-2 Projects. One Hundred Fifty (150) inspections were made during 1967-68. A feasibility Survey was also carried out in Hunters Point and Butchertown Projects.

NOTE: These Inspectors also assisted in doing some relocation housing inspections during this period of time.

Relocation Housing Inspections

Two Environmental Health Inspectors are working on work order full-time for the Central Family Relocation Service administered by the San Francisco Redevelopment Agency. The following inspections were made during 1967-68:

YBC Project	325 Hotel Buildings
A-2 Project	1093 Units, 965 Standard; 128 Substandard
Self-Relocated	<u>192 Units,</u> 29 Substandard
	1285 Units.

COMMUNITY RELATIONS IN FACE AREAS



Good community relations are essential to the successful operation of the FACE Program. An exhibit prepared by our staff with the cooperation of the Department of City Planning shows the public how FACE works. It is almost constantly in use, at community meetings and neighborhood fairs, civic events, or as a display in FACE offices, banks and store windows.



BEFORE



AFTER

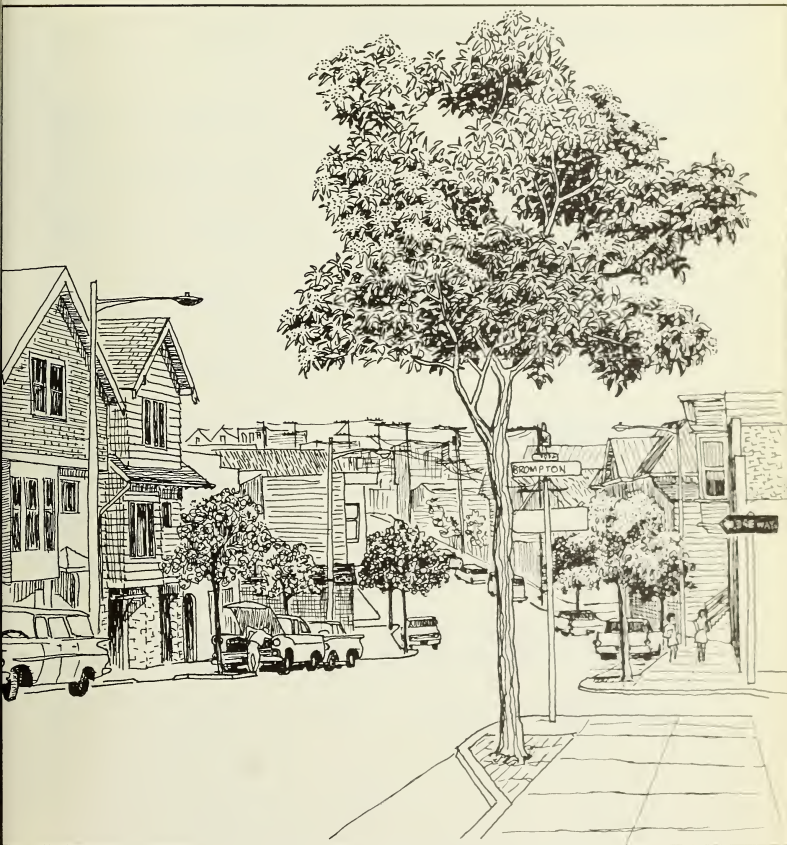
Restoration achieved for \$6,500.

The owner of this house received a grant of \$1,500 and a 3% loan for \$5,000 from the Federal Government in order to rehabilitate the house. New aluminum sash, extensive new electrical wiring, repainting throughout, foundation repairs, a new retaining wall and front stairs, reroofed back porch and ratproofing in the basement are the major improvements achieved with FACE assistance.



CHENERY STREET (before)

Controversial issues in the neighborhoods almost always revolve around planning and design of specific public improvements. To the tree-loving residents of Glen Park, the prospect of widening Chenery Street and narrowing sidewalks was a threat. Working



CHENERY STREET (after)

with the residents, our planners won enthusiastic support for a combined widening and landscaping scheme. Tree-planting peninsulas will be interspersed with the parking spaces, and unsightly overhead wires will be buried.

<u>BUREAU STATISTICS FOR FISCAL YEAR</u>	<u>1966-67</u>	<u>1967-68</u>
Inspections reported by building inspectors	49,330	50,025
Projects remaining on which permits have been issued that have not been reported completed by building inspectors	4,811	4,673
Complaints reported that have been adjusted by building inspectors	2,318	2,264
Inspections reported by boiler inspectors	1,641	1,695
Complaints received and adjusted - boiler and air tanks	1,170	815
Complaints and requests for information recorded	2,617	2,568
Applications for permits examined and approved by Plan Checking Division	1,409 Bldgs. 1,250 Signs	1,471 1,258
Miles traveled during the year by vehicles on inspection service	412,540	465,233
Report of Residential Records Issued (3R)	4,487	5,329

PLUMBING INSPECTION DIVISION

	<u>1966-67</u>	<u>1967-68</u>
Plumbing Permits Issued	3,361	3,326
Sewer installation, sewer repair or replacement permits	269	320
Plumbing Installation Removals	7	9
Water Permits Combined with Plumbing	2,382	2,203
Water Permits Issued	1,326	1,478
Gas Piping and Appliance Permits	10,659	10,997
Gas Permits on Plumbing	2,752	3,337
Gas Installation Removals	7	8
Plumbing Inspections Made	10,596	10,868
Water Inspections Made	3,000	3,488
Water Installation Removals	7	8
Plumbing Complaints Investigated	952	1,076
Plumbing Complaints Abated	760	1,038
Gas Piping Complaints Investigated	15	8
Gas Piping Complaints Abated	3	4
Gas Appliance Complaints Investigated	92	99
Gas Appliance Complaints Abated	91	93
Gas Lines Inspected Final	2,760	2,495
Gas Appliances Approved	6,974	7,605
Investigations Requested by Coroner	6	3
Plumbing Installations Completed	3,830	3,873
Installations uncovered that were without permit and against which penalties were assessed	64	62

STATISTICAL SUMMARY

BUILDING INSPECTION DIVISION

<u>Type of Construction</u>	<u>1966-67 No. of Permits</u>	<u>1967-68 No. of Permits</u>	<u>1966-67 Estimated Cost</u>	<u>1967-68 Estimated Cost</u>
Type 1A & 1B	27	27	\$129,315,940	\$ 88,460,141
" 2	2	1	1,007,000	1,293,174
" 3	21	25	2,361,346	3,756,201
" 4	28	33	1,581,171	2,320,739
" 5	296	268	18,380,223	17,998,417
Alterations	<u>12,118</u>	<u>12,463</u>	<u>47,119,579</u>	<u>53,984,456</u>
TOTAL	12,492	12,817	\$199,765,259	\$167,813,128

Type 1A - Steel Frame with reinforced concrete walls and floors.
Fire-resistive construction.

Type 1B - Built entirely of reinforced concrete. Fire-resistive
construction.

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of masonry.
Ordinary masonry construction.

Type 4 - Light incombustible frame construction.

Type 5 - Wood Frame construction.

ELECTRICAL INSPECTION DIVISION

	<u>1966-67</u>	<u>1967-68</u>
Permits issued, wiring and signs	12,947	12,300
Inspections made	39,069	37,574
Complaints investigated (found defective)	3,297	2,716
Installations in progress as of June 30, 1968	4,126	4,584
Installations completed	13,136	11,917
Pinball machine inspections	500	526
Juke box inspections	42	56
Inspections of Nursing Homes and Boarding Homes for ambulatory aged	149	183
Night Club, Public Assembly, Dance Halls, etc., inspections	185	287
Spray Booth inspections	35	50
Specials (garages, parking lots, laundries, etc.)	360	248

DIVISION OF APARTMENT AND HOTEL INSPECTIONS

No. Structures Inspected - Inspection Orders Turned In *

<u>Structure</u>	<u>No.</u>
Apts.	13,750
Hotels	848

No. Complete Inspections 773

No. Structures Rehabilitated 324

No. Structures "Picked-UP" - No Previous Housing Files

<u>Structure</u>	<u>No.</u>	<u>No. Units</u>
Apts	90	299
Hotels	1	7

*Does not constitute total number of inspections made.

No. New Buildings and No. Units Gained

<u>Structure</u>	<u>No.</u>	<u>No. Units</u>
Apts.	22	727
Hotels	3	183

No. Structures Reverted to Dwellings

42

No. Structures Demolished

<u>Structure</u>	<u>No.</u>	<u>No. Units</u>
Apts.	48	277
Hotels	14	821

No. Cases Abated

324

With Building Permit

311

Without Formal Hearing

324

Total Units in Substandard Building

3,556

Last Total No. Legal Units

-

No. Dwelling Units Brought into Compliance

2,916

No. Units Eliminated

640

No. Units Gained

301

No. Permits of Occupancy Issued or Revoked

<u>Structure</u>	<u>Issued</u>	<u>Revoked</u>
Apts.	1,018	193
Hotels	48	9

No. Principal's Conferences

589

No. Abatement Conferences

154

No. Condemnation Cases - Recommended/Condemned

<u>Structure</u>	<u>Condemnation Recommended</u>
Apts.	109
Hotels	11

No. Building Permit Applications Received and Processed

1,449

No. Requests for Citations to District Attorney

20

No. Requests for Warrants

2

No. Complaints Received

980

No. Complaints Abated

816

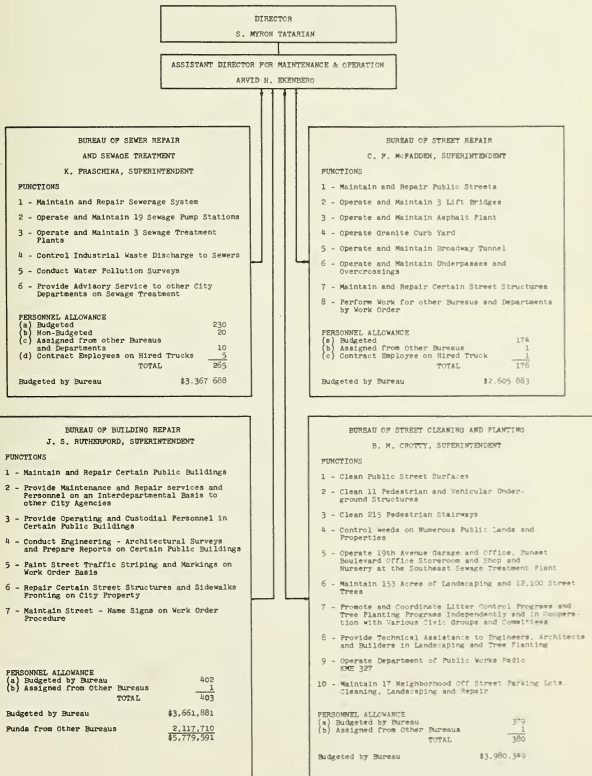
No. Notices Sent

6,631

ORGANIZATION - RELATIONSHIPS

MAINTENANCE - REPAIR - OPERATION

1967 - 1968



SUMMARY

Total Personnel Allowance.....\$1224
 Total Budgeted, less reimbursements.....\$15,733,511

MAINTENANCE AND OPERATION BUREAUS

Arvid H. Ekenberg, Assistant Director of Public Works

Maintenance and Operations

GENERAL

The maintenance and operational functions of the Department of Public Works are centered in the four bureaus of Sewer Repair and Sewage Treatment, Street Repair, Street Cleaning and Tree Planting and Building Repair, with a total of 1224 employees. Functional and organizational relationships of the various bureaus are indicated in other sections of the report.

During the past year, total personnel of the several bureaus increased by 15 over the preceding year, occasioned in its entirety by the transfer of all janitorial functions from the Department of Social Services to our Bureau of Building Repair. In general, for the past several years, most personnel increases for the operating bureaus have been attributable to transfers of functions and personnel from other departments, with no consequent overall change in total City employments. Unfortunately, this is a fact which is often overlooked or forgotten when comparisons are made for previous years, and the general public is, thus, led to believe that total employments for this Department have been increased unjustifiably when compared with general City growth.

Actually, with no net increase in employments, it is a matter of increasing concern to our operating bureaus that general maintenance levels are being constantly eroded by the continual decrease in available man-hours occasioned by the rapid trend away from the traditional 40 hour week. To date, our operating bureaus have been unsuccessful in their endeavors to obtain employments to close or lessen this widening man-hours gap. The net loss is accentuated by such factors as the increasing age and obsolescence of the multi-million dollars in properties and facilities for which we are responsible as well as by the greater demands and needs of a changing society. Without some recognition of the ever growing problem, and compensatory adjustments therefore, it is our conviction that the level of services provided by these bureaus will be regrettably diminished.

EXPENDITURES

Expenditures by Maintenance and Operation Bureaus amounted to \$13,267,962 from budgeted appropriations and \$2,117,710 from funds received by work order, or a total of \$15,385,672. A breakdown of expenditures and per capita costs follows:

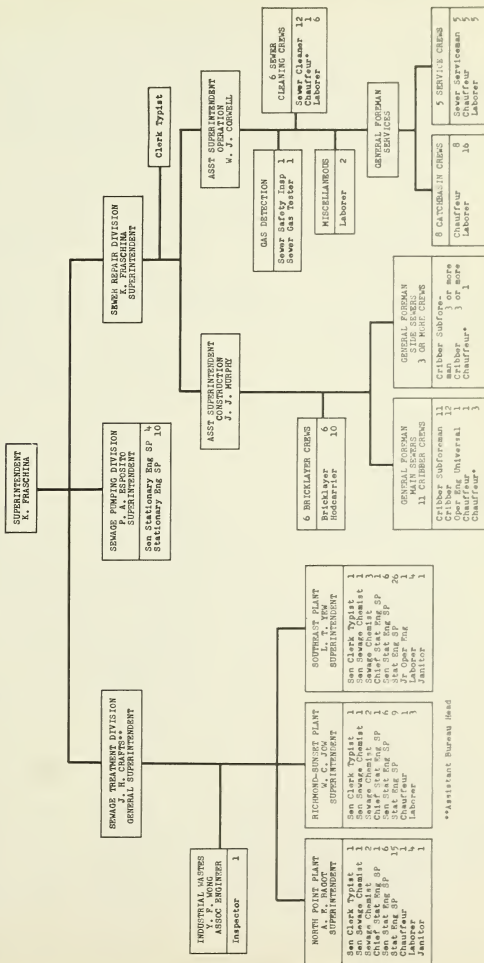
	Total Expenditures	Per Capita Cost (Based on a Population of 715,609 Recorded by Federal Census of 1960)
Street Repair	\$ 2,526,707	\$ 3,531
Sewer Repair and Sewage Treatment	3,342,358	4.671
Building Repair	5,647,235	7.891
Street Cleaning and Planting	<u>3,869,372</u>	<u>5.407</u>
TOTAL	\$15,385,672	\$21.500

ORGANIZATION CHART

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1968



*Hired with truck

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

K. Fraschina, Superintendent

The Bureau of Sewer Repair and Sewage Treatment maintains 900 miles of sewers, controls industrial wastes discharge to sewers, and operates 18 active and one standby pumping stations and 3 treatment plants. During 1967-68, the Bureau had 230 budgeted employees, supplemented by 6 to 10 non-budgeted employees and 5 hired trucks with drivers in the Sewer Repair Division, and 4 maintenance personnel assigned from other bureaus and departments in the treatment plants.

The Bureau spent \$3,369,500 in budgeted funds as follows:

PERSONAL SERVICES	Sewage Treatment	Sewage Pumping	Sewer Repair
Permanent Salaries*	\$ 490,449	\$ 61,253	\$ 129,331
Overtime*	1,500	297	2,916
Holidays*	7,456	2,363	983
Temporary Salaries*	1,786	1,796	
Wages (Per Diem)**	716,224	115,742	1,035,693
Sub-Total	\$1,217,415	\$181,451	\$1,168,923
CONTRACTUAL SERVICES			
Power & Gas***	\$ 120,687	\$ 33,858	\$
Plant Equipment	83,637	21,565	
Field Equipment	4,175	840	39,573
Sludge Disposal	34,090		
Landscape Maintenance	20,496		
Miscellaneous Services	7,967	1,396	10,077
Hired Trucks			65,064
Sub-Total	\$ 271,052	\$ 57,659	\$ 114,714
MATERIALS AND SUPPLIES			
Replacement Parts	\$ 43,484	\$ 2,803	\$ 1,040
Field	489		47,479
Plant	18,687	1,484	
Fuels and Lubricants	3,053	841	12,036
Treatment Chemicals	190,743		
Sub-Total	\$ 256,456	\$ 5,128	\$ 60,555
EQUIPMENT			
New	\$ 1,822	\$	\$ 15,719
Replacement	3,918		14,688
Sub-Total	\$ 5,740		\$ 30,407
TOTAL	\$1,750,663	\$244,238	\$1,374,599

* Monthly Employees.

** Stationary Engineers changed from monthly to per diem employees this year.

*** In Public Utilities Commission budget.

Sewer Repair Division
Work and Cost Distribution

Work Unit	Work Done	% of Time	Total Cost (a)	Unit Cost (a)
1 Sewer Cleaning	544,018 Linear ft cleaned Other work	89.8 10.2	\$144,959 16,515	\$0.27 \$161,474
2 Eductor Operations	12,386 Catchbasins cleaned Other work	64.2 35.8	134,879 75,313	10.89 210,192
3 Services	5,310 Complaints serviced Other work	46.9 53.1	77,846 88,287	14.66 166,133
4 Main pipe sewers	6,017 Linear ft repaired at 422 locations		310,900	51.67
5 Brickwork	12,687 Linear ft brick sewer repaired 1 Catchbasin constructed 5 Manholes constructed 150 Catchbasins repaired 67 Manholes repaired	77.6 0.2 2.2 12.7 7.3	96,911 269 2,741 15,881 9,057	7.64 269.00 548.20 105.87 135.18
6 Gas detection	2,781 Manholes tested Other work	20.2 79.8	3,795 14,984	1.36 18,779
7 Miscellaneous			56,990	56,990
	Total budgeted work		\$1,049,327	
8 Work orders (b)			3,113	
9 Side sewers (c)	147 Installations 120 Repairs 15 Connections		94,725 62,116 2,139	644.39 517.63 142.60
	Grand Total		\$1,211,420	

(a) Costs do not include supervision, overhead or other indirect charges.
(b) Repairs for other bureaus or departments.
(c) Paid for by property owners.

In addition, the Sewer Repair Division expended \$158,980 for side sewers paid for by property owners and \$3,113 on work orders from other departments. The Sewage Treatment Division received \$2,414 for advisory services to other departments.

SEWER REPAIR DIVISION

The Division cleans, repairs, and makes minor additions to main sewers, side sewers, and related structures; tests sewers for oxygen deficiency and for explosive and toxic gasses; and controls mosquitos in catch basins.

The Division has 109 budgeted employees, 6 to 10 non-budgeted employees (20 are authorized) for side sewer installation and repair paid for by property owners, and 5 hired trucks with drivers. The low number of side sewer employees continuing from last year is a reflection of reduced activity in residential building construction during the year. Work units or groups are as shown in the organization chart. Details of unit functions, methods of operation and equipment used are the same as described in the 1965-66 Annual Report. While many of these groups frequently assist each other, the material trucks, digging unit, and compressor unit are almost entirely subsidiary as their principal function is to assist other units. The Bureau received 5,310 telephone complaints in the year. The activities of the work units are summarized in the Work and Cost Distribution table. Unusual absence of sewer servicemen and construction supervisors for illness and other reasons made it necessary to assign their duties to sewer cleaners and bricklayers, thus, considerably reducing work output of the sewer cleaning and bricklaying units. The lost time amounted to 142 days of sewer cleaner time and 102 days of bricklayer time. In addition, the sewer cleaning units had to spend 285 man days cleaning debris from the 15th Street sewer between South Van Ness Avenue and Harrison Street deposited by BART tunnel construction activities and 116 man days removing grease deposited in the Fourth Street sewer between Howard and Shipley Streets from meat rendering plant wastes. The following table shows the work done by the service units:

<u>SIDE SEWER</u>	<u>No. Calls</u>	<u>Percent</u>	
Relieved clogged sewer	3,942	27.2	
Found trouble inside property	300	2.1	
Wet down backfill	182	1.3	
Determine if side sewer exists	395	2.7	
Found side sewer broken	223	1.5	34.8
	5,042		
<u>MAIN SEWER</u>			
Found main sewer broken	217	1.5	
Relieved clogged main sewer	389	2.7	
Examine condition	1,849	12.8	
Wet down backfill	208	1.4	18.4
	2,663		

CATCHBASINS AND MANHOLES

Remove obstruction	482	3.3	
Replace cover	384	2.7	
Silence noisy cover	452	3.1	
Examine conditions	354	2.4	11.5

MISCELLANEOUS

Service lights and barricades	3,940	27.2	
Investigate seepage and leaks	307	2.1	
Clean pump stations	222	1.5	
Deliver material to job	287	2.0	
Remove deposits on sidewalk	8	0.1	
Depressions not sewers	241	1.7	
Not classified	106	0.7	35.3

TOTAL	14,488	100.0
-------	--------	-------

The only major sewer failure during the year was collapse of a 35 foot section of the crown of the old 3 ft. x 5 ft. brick sewer in 18th Street, just west of Castro Street, during the storm in the early morning hours of December 8. The resulting flood seriously undermined the street pavement and adjacent sidewalks, and damaged nearby property. Before the sewer could be repaired, it was necessary to shore up the street pavement so as to maintain one lane open on both sides of the street for uninterrupted operation of trackless trolleys and busses. The accompanying photograph shows the collapsed section of the sewer after removal of the overlying pavement. Repair of the sewer and restoration of the pavement were completed by December 15.

Although rainfall was less than normal this year, two unusually heavy storms did occur with rainfall intensities approaching 5-year design levels which resulted in widespread complaints of flooding and popped manhole covers. During the first storm, on January 10, 275 telephone complaints were received between 5 am and 6 pm; during the second storm, from January 27 to 31, 313 complaints were received in the period. The nature and number of complaints are tabulated below:

	<u>January 10</u>	<u>January 27-31</u>
Side Sewer Flooded	152	134
Catch basin flooded	93	148
Manhole cover off	21	16
Hole in street	3	10
Main sewer clogged	5	2
Street flooded	1	3
	<u>275</u>	<u>313</u>

These large numbers of complaints severely taxed resources of the Bureau, and several days elapsed both times before all complaints could be investigated.



BRICK SEWER FAILURE ON 18th STREET AT CASTRO

A hydraulic sewer cleaning machine, shown in the photograph, was received at the end of the fiscal year but was not in service by June 30 because it did not fully meet specification requirements. This machine cleans sewers by means of extremely high water pressure jets which knock off material adhering to pipe walls. The jets pull the jet nozzle and hose through the sewer. When the nozzle is retracted by the motor-driven drum on the truck the jets sweep bottom deposits and removed adhering material to the downstream manhole. This is the first new major improvement in sewer cleaning methods that has been developed in many years.

SEWAGE PUMPING DIVISION

The division has 15 budgeted employees and operates and maintains 18 stations in continuous operation and one standby station in the Lake Merced area which was operated twice during the year. Division activity is summarized in the Expenditures and Cost Data table.

Sewage Pumping Stations
Expenditures and Cost Data
1967-68

Location	Drainage Area In Acres	Million Gallons Pumped	Salaries	Main- tenance	Power	Materials & Supplies	Totals	Cost Per Mil Gal Pumped
General (a)			\$8,035	\$840	\$5	\$876	\$9,756	\$1.10
Drumm St	332	1,256	15,581	1,900	4,009	226	21,716	17.29
Fitzgerald Ave	30	97	6,925	511	844	43	8,323	85.80
Fourth St north	138	2,227	15,642	3,289	5,616	473	25,020	11.23
Fourth St south	25	84	1,728	200	488	34	2,450	29.17
Fulton St	82	79	8,501	690	689	634	10,514	133.09
Hunters Point	90	129	10,387	680	820	68	11,955	92.67
Hyde St	14	52	6,916	922	261	147	8,246	158.58
Lake Merced (b)	930	623	22,648	2,070	3,855	1,099	29,672	47.63
Marina	1,125	2,238	19,052	4,109	6,422	612	30,195	13.49
Mariposa St	117	221	12,118	1,546	1,368	509	15,541	70.32
Palace Fine Arts	2	6	1,731	97	10	0	1,838	306.33
Park Merced (c)		4	2,066	285	1,416	0	3,767	941.75
Pinelake	3	4	1,731	350	186	29	2,296	574.00
Sea Cliff #1	4	3	1,731	373	62	25	2,191	730.33
Sea Cliff #2	84	92	12,177	2,240	1,849	81	16,347	177.68
Tennessee St	2	20	1,731	121	73	3	1,928	96.40
Twentieth St	27	28	1,731	157	309	0	2,197	78.46
Vicente St	52	63	8,514	675	529	35	9,753	154.81
Yosemite Ave	1,277	1,664	22,506	2,746	5,047	234	30,533	18.35
Totals	4,334	8,890	\$181,451	\$23,801	\$33,858	\$5,128	\$244,238	\$27.47

(a) Power cost in this category is for 24th Ave and Lake St control gate.

(b) Estimated; meter malfunctioning after March 13, 1968.

(c) Maintained as standby for 212 acres tributary to Lake Merced station.

Note: Salary distribution changed from prior years on basis of time studies done during 1967-68.

Two new stations were placed in operation during the year. One which started July 26, 1967, serves the City's Palace of Fine Arts and adjacent lagoon area and is equipped with two 150 gpm pumps. The other, which was transferred to the City on July 11, 1967, serves a 2 acre area in the vicinity of Tennessee Street and Tubbs Street and is equipped with two 750 gpm pumps. The pumps are unusually large since all stormwater must be pumped at this location.

With the exception of the Tennessee Street station, the stations are designed to handle normal dry weather flow plus runoff from 0.02 in. per hour rainfall. The Lake Merced station is equipped with variable speed pumps. Pump speed is varied to match flow by a combination of electrical controls and pneumatic sump level sensors. The other stations are equipped with fixed speed pumps. The pumps operate intermittently in various combinations to match incoming flow. Pump operation is controlled by switches which function at fixed sump levels. At 15 stations the switches are operated by floats. At the Fourth Street South and Twentieth Street stations the switches are operated by pneumatic level sensors. Automatic influent throttling gates at Drumm Street, Fourth Street North, Lake Merced, Marina, Sea Cliff No. 2 and Yosemite Avenue stations allow operation at full capacity during storms. Installation of hydraulic check valve controls at the Fourth Street North station, begun last year, was completed during the year.

Stations are serviced by a roving crew on a 24 hour per day, 7 days per week schedule. In addition, the Sea Cliff No. 2, Marina and Drumm Street stations each have one man assigned full time five days per week. The Marina and Sea Cliff No. 2 stations require more attention due to age and the critical areas served. The Drumm Street station still receives considerable construction debris which must be removed promptly from the sump during the work week.

Major operating problems during the year were caused by the following:

Motor bearing failure and excessive check valve wear at Fourth Street North station.

Frequent malfunction of electrical-pneumatic pump control system and of flow meter at Lake Merced station.

Malfunctioning of hydraulic gate control system at Sea Cliff No. 2 station.

Major maintenance was as follows:

Completely overhauled seven pumps in six stations.

Repaired check valves at Yosemite, Drumm Street, and Fourth Street North stations.

Replaced malfunctioning operation recorders in 16 stations.

Repaired discharge valves at Fourth Street North and Marina stations.

Replaced bearings and stator winding in one 100 hp pump motor at Marina station.

Replaced one set of pump motor bearings at Fourth Street North station.

Repaired vandalism damage consisting of exterior painting and door lock replacement at three stations and window replacement at one station.

Treatment Plant Operation

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	21,956	7,459	6,660
Avg day	60.0	20.4	18.5
Avg day, dry weather (b)	57.1	19.8	18.0 (c)
Max day, wet weather	130.2	33.5	29.2
Max day, dry weather	65.1	21.6	22.9
Max rate, wet weather	183	51	43
Max rate, dry weather	113	44	35
Screenings, cu ft			
Total	55,066	33,882	44,902 (d)
Max day	372	178	243
Per million gallons	2.5	4.5	6.7
Grit, cu ft			
Total	61,254	36,500	(d)
Max day	554	383	
Per million gallons	2.8	4.9	
Chlorination, lb (e)			
Pre	328,950		
Post	1,927,630	609,500	1,599,680
Total	2,256,580	609,500	1,599,680
mg per liter dry weather	14.8	10.3	31.7
Sludge Solids, M lb (dry)			
From sedimentation	26,896		73,138 (f)
To digesters		7,185	61,035
Filter cake		1,361	13,413 (g)
Ferric Chloride			
Total, lb		60,630	599,900
% filter cake solids		4.45	4.47
Gas Production, M cu ft			
Total		73,409	232,925
Avg day		201	638
Power and Gas purchased			
Power, total M kwh	5,829.6	2,154.4	5,095.2
Power, avg/mo, M kwh	485.6	179.5	424.6
Natural gas, total therms	75,680	8,092	9,296
Natural gas, avg/mo, therms	6,307	674	775
Hauling			
Trips, grit & screenings	684		313
Trips, grit		263	
Trips, filter cake to parks		447	2

- (a) For 365.7 days North Point; 365.7 days Richmond-Sunset; 359.5 days Southeast.
- (b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.
- (c) Excluding days flow partially bypassed for reconstruction or malfunction.
- (d) Combined screenings and grit; discharged into common storage bin.
- (e) Prechlorination as needed for odor control at North Point. Postchlorination continuous at North Point and continuous except during storms at Richmond-Sunset and Southeast.
- (f) Includes recirculating load from sludge processing overflows.
- (g) On wet basis: 21,500 tons hauled to sanitary fill and 15 tons used by City.

SEWAGE & WASTE TREATMENT DIVISION

The division operates and maintains the North Point, Richmond-Sunset and Southeast Sewage Treatment plants, controls industrial waste discharges, makes field sanitary surveys and advises other City departments on sewage treatment facilities under their jurisdiction.

The division has 106 employees distributed as shown in the organization chart, supplemented by four employees assigned from the Bureau of Building Repair. Major repairs and maintenance requiring specialized crafts are done by work order to other Public Works bureaus and the Purchaser's shops, or by contract with private firms. Funds are transferred to the Bureau of Street Cleaning and Planting for care of landscaping.

Methods used to provide primary treatment are described in the 1965-66 Annual Report. Treatment activity is summarized in the accompanying Treatment Plant Operation table. Cost of operation was approximately \$2.33 per capita, based on an estimated tributary population of 750,000.

At the Richmond-Sunset Plant, contract work on replacement of the main power feed line to the Pretreatment building mentioned in last year's report, started March 1968 and was completed in June 1968.

At the Southeast plant, warranty testing of the automatic drawoff control system for sludge thickening and elutriation was completed in October 1967. The problems noted in the prior two annual reports with digester No. 7 gas recirculation are now scheduled for solution next fiscal year by installation of additional compressor capacity. A contract to replace 170 ft. of 22 in. diameter waste sludge return line and install automatic samplers started in July 1967 and was completed in January 1968. The replacement pipe is made of fiberglass reinforced plastic which it is anticipated will have a longer service life than the cement lined steel pipe originally installed. Another improvement contract to provide additional City water supply to the plant and extend steam lines to several buildings which commenced in March 1968 was still in progress at the end of the year. Contracts mentioned last year for the extension of the Southeast effluent outfall line were not complete as of June 30.

In order to prepare digesters No. 8 and No. 9 at the Southeast plant for gas recirculation and other improvements scheduled for contract in the next fiscal year, the plant commenced emptying and cleaning digester No. 9 in May 1968.

The program of replacing or rehabilitating major units after 15 years or more of service has been continued from last year. The accompanying photograph shows a new steam cleaning unit at the North Point plant. This unit and one other steam cleaning unit were installed at a cost of \$12,039 to replace two of five units in service since December 1951.

Other major maintenance was as follows:

NORTH POINT PLANT

Sedimentation system: replaced chain and other sludge collector parts in tank No. 2 and one-half of tank No. 5; rebuilt varidrive unit for tanks No. 1, No. 4, No. 5 and No. 6; rebuilt foundation and varidrive unit for one sludge transfer pump.

Grit system: replaced chain and other grit collector parts in tank No. 1; replaced grit conveyor screws in tanks No. 2 and No. 3; renewed valves and piping to two north side grit pumps.

Ventilation: removed top row of glass block from North Sedimentation building; rebuilt main exhaust fan in Pre-Treatment building.

Repaired leaks in 48 in. discharge lines from lift pumps B, C, D and E at receiving structure.

Overhauled manlift No. 1 and No. 2.

RICHMOND-SUNSET PLANT

Sedimentation tanks: replaced vertical sections of cast iron sludge withdrawal lines with PVC pipe; installed water lances in sludge sumps to improve sludge removal; enclosed two sides of tank No. 5 with cyclone fencing.

Resurfaced floor and renewed chain and other grit collector parts in grit tank No. 4.

Repaired doors and installed new lathe and lathe foundation in machine shop.

Renewed piping in water storage building.

SOUTHEAST PLANT

Replaced chain and other sludge collector parts in sedimentation tank No. 1 and in portions of the other three tanks.

Renewed grit collector wearing shoes twice in North grit tank and three times in South grit tank.

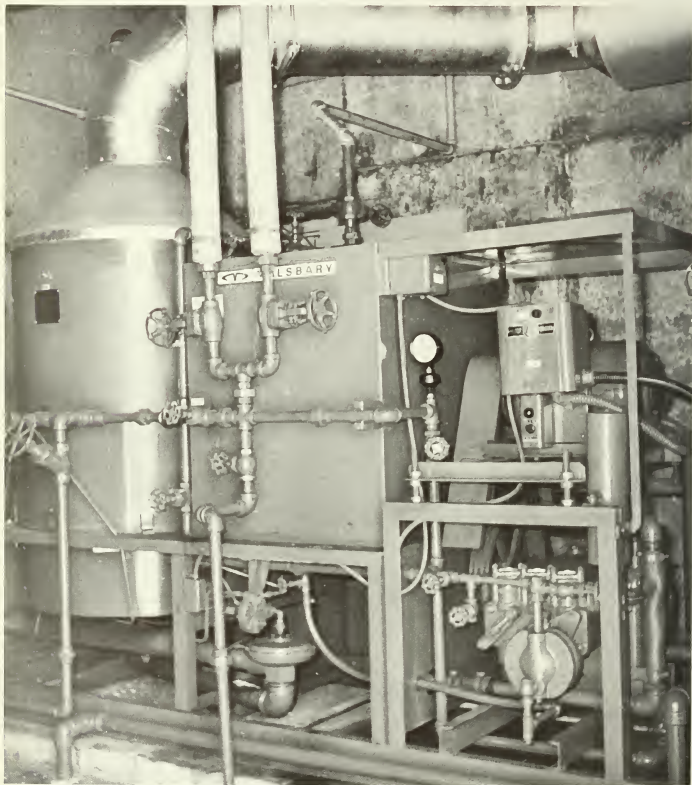
Relocated chlorine solution line from effluent channel structure to a location just upstream of effluent flow measuring weir.

Overhauled one 15,000 cfm vacuum pump.

Overhauled all four waste gas burners and renewed boiler feed lines in digester gas system.

Repainted exteriors of three buildings, five digestion tanks and the hopper for screenings and grit.

Each treatment plant makes continuing sanitary surveys of ocean and bay waters and beaches adjacent to its tributary area in accordance with self-monitoring programs required by the S. F. Bay Regional Water Quality Control Board. In addition, each plant is now responsible for checking the condition of critical diversion structures in its drainage district whenever survey data indicates abnormalities.



NEW HYDRAULIC SEWER CLEANING MACHINE

The foregoing work plus essential operations control comprises the major portion of staff and laboratory workload. However, the division does make special studies and investigations to improve operation, furnish data for the Bureau of Engineering, assist other bureau divisions, and advise other City departments.

Last year's report described work done on chlorine mixing. This special investigation was carried over into this fiscal year and as a result, the chlorine diffuser at the Southeast plant was moved from the original structure in the effluent channel to a location just upstream of the effluent measuring weir. By use of the sampling device described in the last report, it was demonstrated that the hydraulic jump following the wier provided uniform mixing. This special work has resulted in adequate mixing at the Richmond-Sunset and Southeast plants which improved the efficiency of chlorination and established the validity of samples taken for performance evaluation.

Other special work included the following:

COMPLETED

Comparison of effluent suspended and settleable solids at peak flow.

Evaluation of chlorine contact time in effluent lines using dye for simulation.

Evaluation of chlorinator operating and control systems.

Evaluation of the effect of pump surges on effluent settleable solids.

Evaluation of column partition chromatographic test for volatile acids.

Correlation of filter cake production computed from samples taken during filter operation with weighed output.

CONTINUING

Comparison of material for Purchasing Department.

Evaluation of coliform, fecal coliform and enterococcus survival in bay waters.

Evaluation of grit separation by a straight tube cyclone.

Correlation of operating procedures with settleable solids concentration in effluent.

Evaluation of polymer coagulants and flocculants.

The Industrial Waste section of the Division has two budgeted employees and inspects industrial plants to check waste discharges for compliance with the industrial waste ordinance.

During the year, 2,974 routine inspections were made and 742 complaints investigated. The number of complaints was 43% greater than last year. The major portion of this increase was due to groundwater pumpage and other wastes from several BART construction sites. A total of 1,664 waste samples were taken by the section and analyzed either by the section or the treatment plant laboratories. At one tannery and wool processing plant a sample was taken hourly, 24 hours per day for five days for a total of 120 samples.

During the year, several industrial firms installed or improved existing waste facilities including the following:

Revision of yard area drainage and asphalt truck cleaning procedures at one asphalt mixing plant.

Installation of one additional oil and sand separator, improvement of separator maintenance and revision of waste oil handling at one trucking and rigging company.

Elimination of edible tallow wastes at one meat rendering plant.

Installation of screens and gravity separators at one BART construction site.

Installation of gravity separator and screen at one rag company.

Installation of additional wool and hair snagging machines and waste screens at one tannery and wool processing plant.



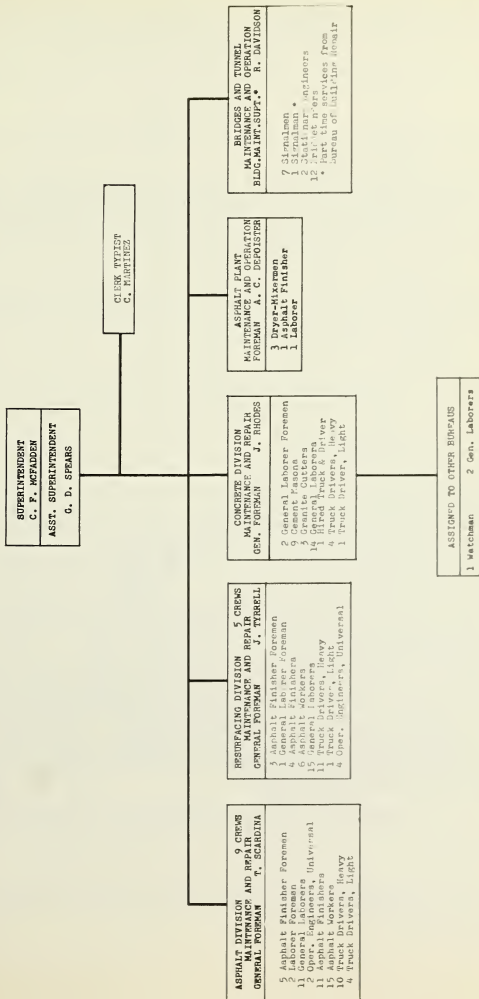
REPLACEMENT
STEAM CLEANER
AT NORTH POINT
PLANT

ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1968



BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

FUNCTIONS

The functions of the Bureau of Street Repair have been set forth in previous reports as follows:

Routine work includes the maintenance and repair of streets and appurtenant structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance of a City dump; tunnels and a pumping station in the Geary Street underpass at Fillmore Street.

Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the Public.

Work performed for other departments or bureaus includes the repair of pavement in Municipal Railway track areas, the repaving of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain State highways within the City and the repair of pavements in school yards and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

The City's charter provides that repair or reconstruction on any one job shall not exceed a cost of \$5,000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

Activities are further limited by State law governing the expenditure of monies from which the Bureau is financed. (The Collier-Unruh Local Transportation Act of 1963 and the Collier-Burns Act of 1947.)

Maintained road mileage is as follows:

Select System (Comprised of Major Arterial Streets, Collector Streets and other roads)	842.01 miles
State Highways (by maintenance agreements)	<u>10.32 miles</u>
TOTAL	852.33 miles

ORGANIZATION AND PERSONNEL

The basic organization of the Bureau remained about the same as for the previous year and no significant changes are contemplated in the immediate future.

During the year a civil service list for Truck Driver, Heavy, was established and 15 vacancies were filled permanently. This was the first Truck Driver, Heavy, examination held in approximately 8 years.

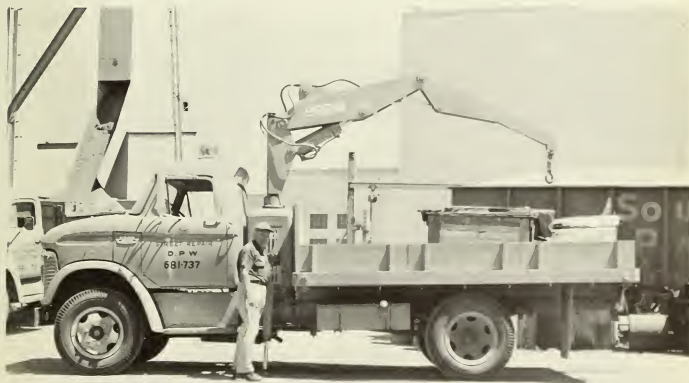
An organization chart, as of June 30, 1968, accompanies this report.

EQUIPMENT

Replacement equipment approved during the year consisted of two dump trucks, two crack sealing units, one crew and tool truck, three automobiles, four cast iron hand rollers, one 150 C.F.M. rotary compressor, one typewriter and two pavement breakers.

Of the above requisitioned equipment, as of June 30, 1968, we have actually received the following units: One dump truck, one crew and tool truck, three automobiles, two pavement breakers and one typewriter. The balance is on order but probably will not be received for several more months. This delay works a hardship on the Bureau because almost 2 years will have elapsed since the equipment was requested in the budget.

There was no new equipment acquired during the year.



FLATBED TRUCK EQUIPPED WITH HYDRAULIC CRANE

WORK PERFORMED

	<u>Unit</u>	<u>Quantity</u>	<u>Total Cost</u>	<u>Unit Cost</u>
Asphalt Resurfacing - Hand Asphalt Paving	Sq. Ft.	386,302	62,460	.1617
(160.8 sq. ft. per ton)	Tons	2,402		26.003
Asphalt Resurfacing - Machine Asphalt Paving	Sq. Ft.	4,447,709	314,334	.0707
(155.7 sq. ft. per ton)	Tons	28,564		11.005
Asphalt Resurfacing - Box Asphalt Paving	Sq. Ft.	624,487	96,194	.1540
(101.3 sq. ft. per ton)	Tons	6,162		15.611
Asphalt Patching	Sq. Ft.	674,673	256,732	.381
(169.9 sq. ft. per ton)	Tons	3,972		
Asphalt Paving (Cut-outs)				
Compressor Work	Sq. Ft.	202,066	45,152	.2235
Asphalt Paving	Sq. Ft.	297,548	82,204	.2763
(84.4 sq. ft. per ton)	Tons	3,527		
Cleanup		297,548	74,040	.2488
Curb Reset and Replaced				
Compressor Work	Lin. Ft.	42,293	50,460	1.193
Granite Reset	Lin. Ft.	15,522	35,063	2.259
Granite Replaced	Lin. Ft.	4,342	9,771	2.250
Concrete Reset	Lin. Ft.	156	434	2.782
Concrete Replaced	Lin. Ft.	10,462	39,620	3.787
Pavement-Asphalt	Sq. Ft.	29,726	23,709	.798
Pavement-Concrete	Sq. Ft.	5,878	9,245	1.573
Sidewalk	Sq. Ft.	7,363	14,724	1.999
Cleanup			82,598	
Concrete Curb Repair			48,152	
Curb Yard				
Redress Granite	Lin. Ft.	7,547	19,108	2,532
Sort, Move, Etc.			20,020	
Total			39,128	

	<u>Unit</u>	<u>Quantity</u>	<u>Total Cost</u>	<u>Unit Cost</u>
Crack Sealing				
Sealing	Lin. Ft.	1,847,595	162,896	.0882
Cleanup			50,160	
Total	Lin. Ft.	1,847,595	213,056	.1153
Manhole Casting Reset	Each	726	50,178	69.115
Concrete Pavement Repaired	Sq. Ft.	2,262	3,436	1.519
Sidewalk Reconstructed	Sq. Ft.	53,699	50,430	.939
Heater Planing	Lin. Ft.	261,070	64,839	.248
Slide & Debris Cleanup			59,245	
State Highways				
Asphalt Paving	Sq. Ft.	1,060	1,162	1.096
Concrete Paving	Sq. Ft.	698	1,526	2.186
Work for Other Bureaus & Departments				
Asphalt Paving	Sq. Ft.	302,567	71,913	.238
Concrete Paving	Sq. Ft.	3,619	10,606	2.931

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1967-68 were as follows:

<u>COMPOSITION - %</u>						
<u>Mix Designation</u>	<u>Tons</u>	<u>Asphalt</u>	<u>#6</u>	<u>5/16"</u>	<u>5/8"</u>	<u>1 1/4"</u>
Surface	2,525	8 1/2	91 1/2			
School	6,163	7	60	33		
Topeka	40,450	6	45	25	24	
Spreader	811	5 1/2	40	25	17 1/2	12
Binder	251	3 1/2	21	28	22 1/2	25
Cold	197	*	35 1/2	27 1/2	30	
Total	50,397					

* 1% asphalt and 6% Pacific specification 300 fuel oil.

Aggregates were screened into "hot bin" from a combination of Antioch (fine graded) sand, course graded sand and three sizes of gravel. Asphalt used was 60 - 70 penetration, paving grade.

Production costs for the 50,397 tons produced during the year were as follows:

Direct Labor	\$ 63,807.56	or	\$1.27 per ton
Indirect Labor	2,755.99	or	.05 per ton
Overhead	15,690.03	or	.31 per ton
Materials	192,874.97	or	3.83 per ton
Gas, Electricity, etc.	17,672.57	or	.35 per ton
Total	\$292,801.12	or	\$5.81 per ton

All maintenance work and worn part replacement was done during slack work days or on Saturdays with the following exceptions:

At about 1:00 PM on Friday, June 21, 1968, the storage bin loading elevator belt broke. It was raised by Sheedy Transportation Company and secured over the pulleys at 12 noon on Monday, June 24, 1968. Aggregate stocked in the bins was sufficient to permit continuous operation.

During the month of June 1968 the aggregate storage bins were cleaned, primed and painted by the Bureau of Building Repair, as a contractual service, for the cost of \$1,199.

A new 36 inch x 260 foot, 3 ply, all nylon conveyor belt with cut edges, 3/16" top and 1/16" bottom rubber covers was purchased from the American Rubber Company. The belt was installed and vulcanized endless on the job by the vendor. This was the first conveyor belt replacement since the plant started operating, 13 years ago.



UPPER BIN
LOADING CON-
VEYOR BELT
REPLACED
DURING YEAR

BRIDGES, TUNNELS AND UNDERPASSES

The City's three bascule type bridges and their operation were described in report for year ending June 30, 1960; Broadway Tunnel and its operation was described in report for year ending June 30, 1959; the Geary Expressway Underpass pumping facilities at Fillmore Street was described in report for year ending June 30, 1963.



3RD AND CHANNEL BRIDGE

Bridge openings during the past year and the previous five years were as follows:

<u>Year</u>	<u>Third Street</u>	<u>Fourth Street</u>	<u>Islais Creek</u>
1967-68	2179	2010	628
1966-67	2662	1769	456
1965-66	1907	1365	478
1964-65	1866	1627	287
1963-64	2100	1697	391
1962-63	2207	1842	589

During the year the leaf locks at 3rd & Channel bridge were out of service for several months because of electrical wiring failure. Rusted conduit and wiring were renewed and the leaf locks put back in service.

A contract for extensive structural repairs at 3rd and Channel was delayed. It will be let during the coming fiscal year.

A contract for reconstruction of the drive machinery and electrical facilities at the Fourth and Channel bridge was also delayed due to financial problems.



ISLAIS CREEK BRIDGE

Statistics regarding the Broadway Tunnel ventilation, lighting and traffic are as follows:

Ventilation - Blower Operating Time

Year End- ing June 30	North Bore Westbound Traffic				South Bore Eastbound Traffic			
	<u>Slow</u>		<u>Fast</u>		<u>Slow</u>		<u>Fast</u>	
	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1968	165.5	1.89	9.4	.10	138.2	1.57	86.4	.98
1967	152.0	1.73	10.1	.11	130.0	1.48	91.4	1.04
1966	173.3	1.97	12.6	.14	48.8	.56	27.8	.32
1965	497.8	5.68	16.5	.19	73.1	.83	29.5	.34
1964	647.0	7.48	12.8	.14	52.6	.60	30.0	.34

Lighting - Lamps Replaced

	<u>Occasions</u>	<u>72T8's</u>	<u>72T12's</u>	<u>Total</u>
Lamps in Service		1004	332	1336
Replaced During Year	1	320	46	366
Previously Replaced	55	7788	603	8391
Totals (Since Dec. 1952)	56	8108	649	8757

Traffic Counts

		<u>Eastbound</u>	<u>Westbound</u>
Thursday	February 9, 1967	13,841	11,841
Tuesday	March 3, 1964	11,589	10,723
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,609	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.

Money was budgeted during the year to replace the present carbon monoxide sampling system and ventilation controls at the Broadway Tunnel.

The pumping facilities at the Geary Expressway Underpass at Fillmore Street continued to operate satisfactorily during the year with two exceptions:

1. It was necessary to replace the storage batteries that supply power for the standby gasoline engine driven motor generator set.
2. It was necessary to remove the #2 pump, replace the line shaft bearings and add a steady bearing to overcome excessive shaft whip.

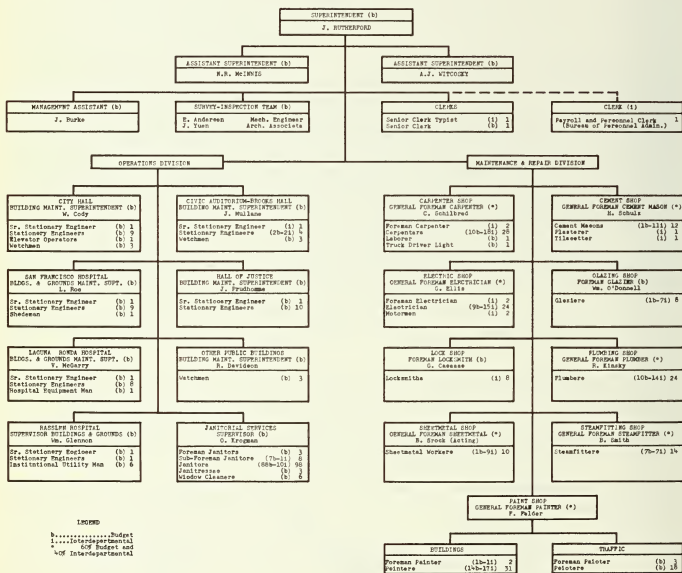
Pump operating hours during the year and previous years were as follows:

<u>Year</u>	<u>Pump #1</u>	<u>Pump #2</u>
1967-68	335	382
1966-67	394	349
1965-66	289	305
1964-65	277	249
1963-64	380	375
1962-63*	239	246

* Pumps operated for approximately seven months during year.

ORGANIZATION CHART BUREAU OF BUILDING REPAIR

JUNE 30, 1968



BUREAU OF BUILDING REPAIR

J. Rutherford, Superintendent

This Bureau is the largest maintenance and operation unit in the Department of Public Works in terms of the number of employees and size of budget. It also has the most varied type of work force, consisting of over 50 different classes of employments.

FUNCTION

The Bureau's primary function is to maintain and repair 332 public buildings as well as provide operational and/or janitorial services for 117 of these buildings on a budget of approximately 3.7 million dollars and a work force of approximately 400 employees. In addition, maintenance and repairs are performed for other departments by means of a budget transfer or interdepartmental work order procedure. A significant portion of this work was performed for the following departments:

1. School Department with over 135 school buildings.
2. Recreation and Park Department with over 300 buildings and structures.
3. War Memorial, de Young Museum, Legion of Honor, Public Utilities, etc.
4. Bureau of Engineering:
 - a. Street Traffic painting and maintenance of street signs.
 - b. Maintenance and repair of street structures, sidewalks and traffic control devices.

ORGANIZATION

As indicated by the organizational chart, the work force is nearly evenly divided between operational and maintenance functions.

The Operation Division consists of 191 budgeted positions which include janitors, window washers, stationary engineers, and watchmen who are assigned to various buildings and institutions.

The Repair Division consists of 201 building trade mechanics representing 12 different crafts. 86 of these are permanent budgeted positions. The remaining 115 positions are classified as interdepartmental and are filled on an "as needed" basis depending upon the work load and availability of funds.

The Administrative Division consists of a Superintendent and a staff of 7 which performs the required administrative functions of planning, budgeting, accounting, payroll and personnel. The Engineering and Architectural Team makes frequent inspections of the physical plant in connection with the Bureau's preventative maintenance program and is responsible

for all contract work. By Charter requirements all work over \$5,000.00 must be done by competitive contract. In actual practice, many jobs for as little as \$500.00 are contracted out because of the specialized nature of the work, time and manpower limitations, or because the work can be done more economically than by City forces. During the year, 62 contracts totaling \$88,755.00 were awarded on a competitive basis, as shown in Figure 4.

INTERDEPARTMENTAL WORK

A major portion of interdepartmental work was generated by the School Department. During the year, 16,075 requisitions were completed for miscellaneous school repairs which averaged 64 requisitions per work day. Of this total 3,333 were emergency requisitions requiring immediate response. 40.2% of all requisitions cost \$25.00 or less and 83.3% were completed at a cost of less than \$100.00. The interdepartmental overhead for all work averaged 45.01% as compared with 42.02% for the previous year. The overhead consists of items over which the Bureau has little control such as retirement, workmen's compensation, sick leave, vacations, supervisions, etc.

SIGNIFICANT CHANGES

This year, more crafts negotiated for and won a reduced work week. Of the 201 building trades mechanics in the 12 different crafts, all but 20 employees are now working either a 35 or 36 hour week. This change represents a loss of 169 hours per day or the equivalent of the loss of more than 24 permanent full-time employments. Compensating positions requested in the budget were denied.

Several new public facilities were completed and assigned to this Bureau's responsibility including two buildings acquired for the future civic center expansion:

240 Van Ness Avenue - a 2 story structure of 16,350 Sq. Ft. now occupied by the Controller's EDP Section.

165 Grove Street - the office and garage building of 15,500 Sq. Ft. now occupied by the Art Commission.

Health Center No. 3 - 1525 Silver Avenue, a new 2 story structure with basement parking facilities.

Excelsior Branch Library - 4465 Mission Street, a new single story structure which replaced inadequate rented quarters.

PROBLEMS AND PROGRESS

Despite progress, there are times when it appears that the solving of minor daily problems totally unrelated to our main responsibilities allows less and less time to be available for the primary task of managing an efficient maintenance program. Some of these vexing problems in order of importance are:

Adequate maintenance budget. Despite a reduced population, the City is greatly expanding services and facilities, particularly in respect to social services, health and recreation. All of these facilities must be operated and kept in repair, but under the pressure of tax relief, vitally needed maintenance funds are being cut. This seemingly easy expediency of "saving" money today by "deferring" maintenance will all too soon lead to far more costly bond issues for correction of this neglected maintenance. As new facilities are acquired and placed in operation, it is essential that adequate maintenance funding for them be appropriated, and the fact recognized that aging properties require maintenance as well.

Employments. As previously described, the reduced work week in the crafts has resulted in the loss of the equivalent of 24 full-time positions. Unless this erosion of manpower is compensated by new additional positions, necessary maintenance cannot keep pace with the expanding work load.

Civil Service. Undue delays in holding examinations have made it impossible to fill key vacancies with permanent appointments, which is disruptive to morale and to efficiency of the entire Bureau.

Payroll and Personnel. The problem is one of increasing complexity and difficulty. New procedures have transferred authority for limited tenure hiring to Civil Service. We find this an unrealistic approach for the selection of building trades and operating engineer personnel unless the interviewer has had previous contact of some type with building construction and equipment operation, and believe that an inordinate amount of supervisory time is required for the resolution of the problems which accompany these procedures.

Cost Accounting. Despite a large and expanding EDP Section, this Bureau must still maintain a duplicate manual accounting control of labor and materials in order to be able to make the necessary "real time" decisions required in building repair functions. It is believed, however, that as more routine functions are converted to computer control, many existing procedures may be abandoned and management can then turn more of its energies to its own fields of interest and specialization.



REPAIRING STAGE
LIGHTING CONSOLE
AT CIVIC AUDITORIUM



SIDEWALK REPLACEMENT AT OPERA HOUSE

REPAIRING WINDOWS AT
COUNTY JAIL #2 WITH
HI RANGER WORK TOWER



REPAIRING INCIN-
ERATOR SCREEN
USING AERIAL
WORK TOWER

PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT
OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

<u>Department</u>	<u>No. of Bldgs.</u>	<u>Total Sq. Ft.</u>	<u>Approx. Exp. per Bldg.</u>	<u>Unit Cost per Sq. Ft.</u>
Fire Department	61	614,000	\$ 138,538	\$.225
Juvenile Court				
Hidden Valley Ranch	4	42,712	5,178	.121
Log Cabin Ranch	16	32,000	16,992	.531
Youth Guidance Center	17	202,330	61,096	.301
Police Department (Stations)	10 (C)	101,293	29,673	.292
Hall of Justice	1 (C)	580,500	85,803	.147
Public Health				
Emergency Hospitals	5	33,352	7,492	.224
Hassler Hospitals	18 (C)	130,000	59,303	.456
Health Center Bldgs.	5 (C)	142,000		
and Health Centers	5 (R)	15,987	44,386	.275
Laguna Honda Hospital	25 (C)	650,000	279,460	.429
San Francisco Gen. Hosp.	33 (C)	753,000	356,524	.473
V.D. Center	1 (R)	6,200	2,798	.451
Public Library	21	327,363		
	8 (R)	13,280	93,492	.274
Public Works				
City Hall (inc. Pwr. Plant)	2 (C)	526,540	152,250	.289
City Hall Annexes	3 (1)	37,190	-	-
450 McAllister St.	1 (C)	56,460	14,864	.256
Maintenance Yard	9 (C)	72,890	15,730	.215
19th Ave. Garage	1	4,400	1,208	.274
Water Pollution Treat. Plants	35	543,330	133,001	.244
Water Pollution Pumping Div.	18	23,325	9,693	.415
Real Estate				
Civic Aud./Brooks Hall	2	435,400	78,545	.180
Sheriff				
County Jails #2 and #4	7	138,970	68,702	.494
Social Services				
150 Otis	2 (C)	40,900	18,089	.442
585 Bush	1 (C)	43,791	11,738	.268
1680 Mission	1 (C)	40,000	6,029	.150
S.M.R.C. - Redwood City	1	10,000	3,507	.350
Miscellaneous Departments	19	220,594	37,559	.170
	332	5,837,807	\$1,731,650	\$.296 Avg.

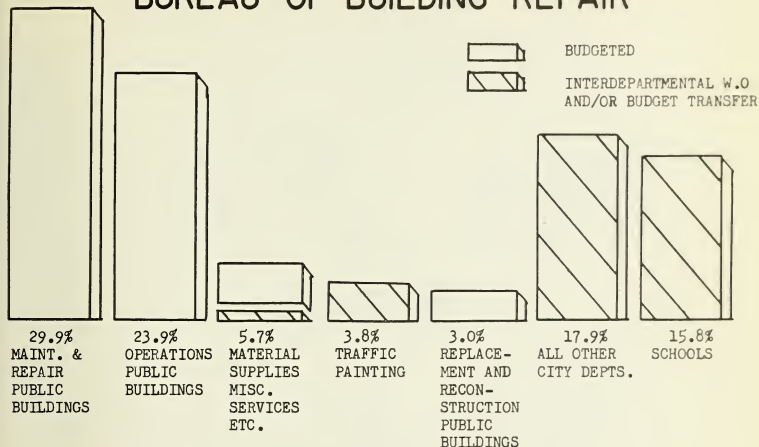
NOTES

(R) Indicates buildings that are rented. (Total of 14 buildings with a combined floor space of 35,467 square feet.)

(C) Indicates custodial and/or operational services also provided by the Bureau of Building Repair.

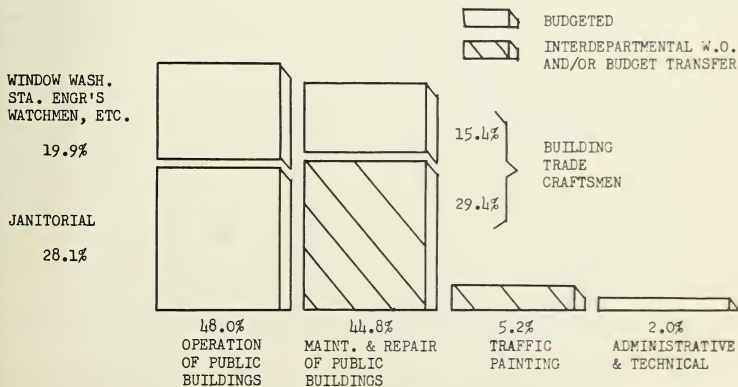
(1) City Hall Annexes include 460 McAllister and 2 new buildings: 165 Grove and 240 Van Ness Ave. Funds for the 3 buildings now provided in 1968-69 budget.

BUREAU OF BUILDING REPAIR



PROPORTIONAL EXPENDITURES OF ALL FUNDS

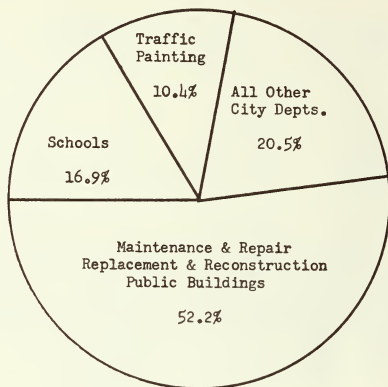
FIGURE 1



PERSONNEL ASSIGNMENT

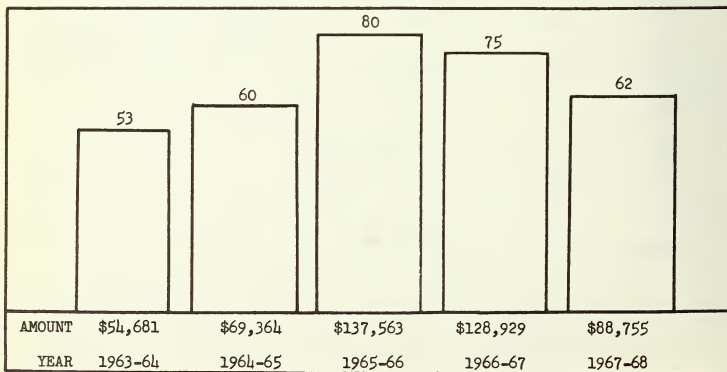
FIGURE 2

BUREAU OF BUILDING REPAIR



ASSIGNMENT OF BUILDING
TRADES PERSONNEL
(201 Employees)

FIGURE 3



INFORMAL CONTRACTS AWARDED 1963-64 THRU 1967-68

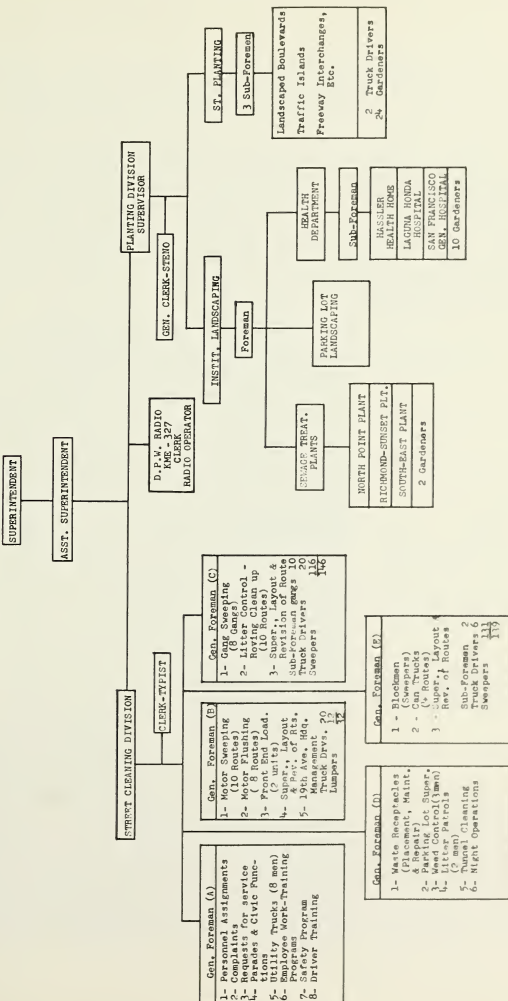
FIGURE 4

ORGANIZATION CHART

BUREAU OF STREET CLEANING AND PLANTING

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1948



BUREAU OF STREET CLEANING AND PLANTING

Bernard M. Crotty - Superintendent

Major functions of the Bureau of Street Cleaning and Planting are cleaning 860 miles of dedicated streets and alleys, pedestrian and vehicular tunnels and underpasses, public stairways, plus maintenance of all street landscaping. Secondary activities include cleaning, landscaping and structural maintenance of 11 neighborhood off-street parking lots. In addition, the Bureau has a large yard at 19th Avenue, garaging 20 trucks, a large tool room on Sunset Boulevard, a tool room at Laguna Honda Home, a nursery at the County Jail and also at the Southeast Sewage Treatment Plant. The Department of Public Works radio transmitter Station K.M.E.-327 is operated by the Bureau of Street Cleaning and Planting.

For these functions the Bureau had 380 employees in both divisions and 80 units of motorized equipment which logged 563,616 miles.

RADIO STATION K.M.E.-327:

The Department of Public Works radio logged 23,280 calls through 41 mobile units, of which 15,548 concerned Street Cleaning and Landscape maintenance. Although the principle reason for this radio is for use in natural or man-made emergencies, its use for day-to-day field communications has proved invaluable. Before Public Works had this system, a citizen's request for service had to wait at least 3 to 4 hours and many times overnight. Now we can respond to any emergency within minutes. It has not only simplified our field assignments and operations, but has reflected a public feeling of dependability on, and appreciation for Public Works operations.

Requests for service and complaints totaled 2,533; most of which were received by phone. With few exceptions, the bulk of these were responded to within a short time, usually no more than 1 hour; by either a radio dispatched crew or a Bureau Supervisor.

NIGHT OPERATION:

Historically, the bulk of street cleaning operations have been performed during the day time. For some time we had considered assigning some street flushing trucks to night duty; principally to avoid congested streets, thereby speeding up our operations; wetting street refuse at night, slowing down evaporation time, and keeping material in place until removed by the hand sweeper. We placed 4 units on the 10pm-6am shift the spring of 1968 and we find not only has mileage increased, but our hand sweepers are able to clean their routes more efficiently. Complaints from the public regarding splashing have been almost eliminated.

ANTI LITTER:

As in past years, one of the most important auxiliary functions of the Bureau staff and Superintendent was participation in the anti-litter activities of the Mayor's Citizens Committee for Litter Control. These activities required a substantial part of the time of the Superintendent. However, as with most problems, prevention is more desirable than cure. If we are to properly pursue our responsibilities, we must continuously educate our fellow citizens in their responsibilities regarding street cleanliness. Toward this end, our assistance, cooperation and facilities are made available to many organizations, such as: "The Mayor's Committee," "California Anti-Litter League," "Keep America Beautiful," E.O.C., many youth organizations, service clubs, and home owners and business associations. All of these organizations are working diligently to stem the ever-increasing amounts of litter and members of our staff, principally the Superintendent, is often called on for night and weekend meetings and functions.



ABUSE OF
STREET CAN

Notwithstanding the foregoing, we are gradually slipping behind in this litter fight. Each year, more and more disposable items are appearing in the market place and a large amount of this finds its way onto our streets and other public areas. One has only to look about in order to see the problem. Mathematically, if we are to remain at our present level of cleanliness or dirtiness, the only alternative is more street cleaning personnel. Financially unpopular as this may be, it is a fact. In summary, and commenting on our present situation, one conclusion and only one can be reached, we will be forced to expand our cleaning forces if we are to keep pace with the rapidly accelerating volumes of waste appearing on our streets.



DEAD END STREET USED FOR
DUMP. INDUSTRIAL AREA.

ABANDONED APPLIANCES AN
ALMOST DAILY OCCURANCE
ON OUR STREETS.



The task of preparing an Annual Report by its nature, leads the author into a falsely inferential report implying that all of the good aspects of his stewardship are solely his. This is not so, and it is with this thought that the majority of street cleaners, laborers, truck drivers, gardeners, supervisory personnel and office staff in the Bureau of Street Cleaning and Planting are to be complimented and thanked for regularly and faithfully performing their jobs, often under most trying conditions.

Records of our principal cleaning activities may be found on succeeding pages.

TABLE I

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - GANG SWEEPING - FISCAL YEAR 1967-1968

(Sweeping Frequencies for Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
<u>1967</u>												
July	2.00	4.20	3.80	2.50	1.25	2.22	2.12	1.81	1.53	2.22	3.00	*
August	2.09	4.60	4.40	3.14	1.53	2.55	1.53	2.09	1.53	2.40	3.50	
September	1.66	4.00	3.33	2.57	1.42	2.22	1.42	1.81	1.42	2.11	3.00	
October	1.83	4.40	4.00	2.75	1.50	2.10	2.10	2.00	1.78	2.33	3.28	
November	1.75	4.40	3.66	2.62	1.42	2.33	2.00	2.00	2.00	2.20	3.00	
December	1.66	4.20	3.80	2.66	1.37	2.00	2.00	1.81	1.90	2.50	3.16	
<u>1968</u>												
January	2.20	4.60	5.00	2.66	1.46	3.30	2.20	2.00	2.20	2.30	3.25	
February	1.81	4.20	4.25	2.71	1.46	2.11	1.90	1.66	1.88	2.11	3.00	
March	3.00	4.20	4.75	2.22	1.50	2.22	1.75	1.90	2.00	2.22	3.28	
April	3.16	4.40	4.40	2.37	1.50	2.22	1.69	1.90	1.69	2.44	3.14	
May	2.77	4.60	3.66	2.71	1.57	2.44	1.66	2.00	2.20	2.44	3.00	
June	1.90	4.40	5.00	2.75	1.46	2.44	2.90	2.00	2.20	2.44	3.67	
TOTALS	25.83	52.20	50.05	31.66	17.44	28.15	23.27	22.98	22.33	27.71	38.28	
Working days per chg.	10.	5.	5.	8.	15.	9.	11.	11.	11.	9.	7.	

NOTE: Each gang is under supervision of a Labor Sub-Foreman and is composed of 4 to 6 Hand-Sweepers with a truck, with a Truck Crew of 1 Chauffeur and 2 Laborers. Length of each route varies from 66 to 270 Curb-Miles.

* GANG #12 is Weeding Gang.

See following page for map outlining each Gang District.
Headings on each column correspond to the Numbered District on the Map.

MAP

OF THE

CITY AND COUNTY OF

SAN FRANCISCO

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

ROBERT C. LEVY

1968

1968

Gang Number 3

The numbers 1 to 11 shown on the white flags inside the heavy boundary lines are the 11 gang sweeping districts.

GOLDEN GATE



PACIFIC OCEAN

CISCO BAY

2

3

11

4

6

7

5

10

9

8

1

TABLE 2

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA

ANNUAL REPORT - MOTOR SWEEPING - FISCAL YEAR 1967-1968

MONTH	Curb Miles Swept	Sweeper Loads (Number)	DISPOSITION OF**15 SWEEPERS (Hours)			Downtime* (Percentage)	Average No. of Sweepers in Operation
			Sweeping	Downtime*	Total work Day Hours		
<u>1967</u>							
July	4,439	241	1,320	1,216	2,536	47.94	7.81
August	4,639	239	1,359	1,509	2,868	52.61	7.11
September	4,507	282	1,385	1,127	2,512	44.85	8.27
October	4,937	315	1,441	1,343	2,784	48.23	7.77
November	4,884	278	1,316	1,304	2,620	49.76	7.54
December	5,115	309	1,425	1,115	2,540	43.89	8.42
<u>1968</u>							
January	5,975	348	1,784	1,000	2,784	35.91	9.61
February	5,303	297	1,585	935	2,520	37.10	9.44
March	4,992	290	1,508	1,172	2,680	43.71	8.44
April	5,756	299	1,687	1,065	2,752	38.69	9.20
May	4,960	283	1,507	1,253	2,760	45.39	8.19
June	4,666	255	1,373	1,383	2,756	50.17	7.47
TOTALS	60,173	3,436	17,690	14,422	32,112	---	---
Averages per month	5,014	286	1,474	1,202	2,676	44.91	8.26

* Downtime includes all work-day time that equipment is not engaged in actual Street-Sweeping; such as: when undergoing repairs, held for servicing or for Stand-by.

** 14 Sweepers + 1 Night Sweeper = 15 Sweepers TOTAL.

TABLE 3

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - MOTOR FLUSHING - FISCAL YEAR 1967-1968

MONTH	Curb Miles Flushed	No. of Stops for Refilling Water Tanks	DISPOSITION OF 10 FLUSHERS (Hours)			Downtime* (Percentage)	Average No. of Flushers in Operation
			Flushing	Downtime*	Total work Day Hours		
<u>1967</u>							
July	6,237	2,699	1,150	486	1,636	29.70	7.03
August	7,027	3,128	1,334	538	1,872	28.71	7.13
September	6,101	2,624	1,131	497	1,628	30.50	6.95
October	6,814	2,896	1,230	578	1,808	31.95	6.81
November	6,811	2,937	1,241	471	1,712	27.51	7.25
December	5,428	2,470	1,035	605	1,640	36.87	6.31
<u>1968</u>							
January	6,651	3,056	1,318	470	1,788	26.27	7.37
February	6,664	3,025	1,261	371	1,632	22.70	7.73
March	6,996	3,119	1,307	409	1,716	23.80	7.62
April	6,856	3,076	1,317	467	1,784	26.16	7.38
May	7,094	2,980	1,287	501	1,788	28.01	7.20
June	6,771	2,962	1,263	529	1,792	29.51	7.05
TOTALS	79,450	34,972	14,874	5,922	20,796	---	---
Averages per month	6,620	2,914	1,240	493	1,733	28.42	7.16

NOTE: Each Flusher is operated with 1 Chauffeur and 1 Laborer for handling Flushing Controls.

* Downtime includes all work-day time that equipment is not engaged in Street Flushing; such as, when undergoing repairs, held for servicing, or stand-by or when operating on work of different nature.

LANDSCAPING & STREET PLANTING DIVISION

The Citywide street tree planting and landscaping programs undertaken by the Department of Public Works, Redevelopment Agency, State Division of Highways, Parking Authority, Health Department and other Public Agencies have greatly expanded the responsibility of this Bureau's Street Planting Division. Since 1955, landscaping has increased from 60 acres to 150 acres and the number of street trees from 4,000 to 15,000 trees. These figures do not include the Health Centers, Parking Facilities, etc.

The Capital Improvement Planting Program for 1968-69 includes five areas in the City that have been selected for the F.A.C.E. (Federally Assisted Code Enforcement) Program. The conservation areas scheduled to receive this help initially are Glen Park, Great Highway, Buena Vista, Arguello Park and Chenery Street. Improvements proposed for these districts include the planting of street trees throughout.

The 1967-68 projects provided street tree plantings along Hyde Street (between Greenwich and Washington Streets) street trees along Lake Street, continuation of the landscaping on Mansell Street (between University and Yale Streets) Columbus Avenue (between North Point and Kearny Streets) landscaping center islands and sidewalks, Bosworth Street (between Elk and Lyle Streets) landscaping center islands and side slopes, San Jose Avenue (Highland to Richland) and Van Ness Avenue. Market Street to Grove Street center island plantings and Monterey Boulevard landscaping between Ridgewood and Circular are out to bid at the time of this writing. The projects provided in the 1966-67 Capital Improvement Program are under construction or have been completed. These include trees along Potrero Avenue, Oak Street (from Stanyan to Franklin) Mission and Morse Streets (traffic island planting) landscaping Brotherhood Way, between Junipero Serra Boulevard and Lake Merced Boulevard, Alemany and Junipero Serra area landscaping, street trees along Hyde Street, between Beach and Greenwich and replacement of part of the irrigation system along Sunset Boulevard. Landscaping the center islands along Van Ness Avenue, between Washington and North Point has been postponed pending renewal of the street lights on Van Ness Avenue. The planting of trees on Castro Street has also been postponed pending a decision of street widening north of Market.

NEIGHBORHOOD PARKING FACILITIES

The Planting Division presently maintains 11 neighborhood parking facilities. There are 3 new parking lots and 1 garage being planned and will be let out to contract during 1968. As in the past, the Planting Division will landscape the facilities and then will assume the maintenance.

HEALTH DEPARTMENT PROPERTIES

The Division supervises the maintenance of the grounds at the Laguna Honda Home, San Francisco General Hospital and Hassler Health Home. The Division also maintains landscaped areas at four health centers: 17th

Street and Pont, 41st Avenue and Pacheco Street, Silver and San Bruno Avenues and Ellis and Pierce Streets. Regrettably, it is necessary to replace plants frequently at the centers because of damage by children playing and also because of vandalism.

REDEVELOPMENT

Recently, the Planting Division has undertaken minor contracts from the Redevelopment Agency, installing trees in the Western Addition. The Division plants and directly assumes the maintenance without the need for drawing up specifications and advertising for a contractor at considerable savings to the City.

CALIFORNIA STATE DIVISION OF HIGHWAYS

By agreement with the Board of Supervisors, the State Division of Highways has landscaped several areas adjacent to the Southern Freeway and the City now maintains these areas. Extensive plumbing repairs were necessary in the area of Bosworth Street. Much of the plastic irrigation system had to be replaced.

CITIZEN'S PARTICIPATION

As required by the Street Tree Ordinance, the Department of Public Works, through the Bureau of Street Cleaning and Planting, works closely with neighborhood groups and associations to promote tree planting in all various districts including the downtown area.



A NEIGHBORHOOD TREE-PLANTING PROJECT



BOXED TREES AND INFORMATION PLACED AT CLEMENT ST. ART SHOW

CAPITAL IMPROVEMENT
TREE PLANTING PROJECT
ON LOMBARD STREET,
WEST SLOPE OF TELE-
GRAPH HILL



A NEIGHBORHOOD TREE
PLANTING PROJECT IN
BERNAL HEIGHTS

During 1967, more than 12,000 trees were planted throughout the City bringing the total of additional trees on our streets over the past 10 years to more than 70,000. This year, our office has received more requests for information and more applications for tree planting than any previous year. In order to aid and accelerate private planting, the City assists home owners in group projects of 12 or more trees by sawcutting and removing sidewalk flags without charge.

In order to assist with the tree planting program in San Francisco, Sears, Roebuck Foundation granted \$3,000 for the planting of a group of display trees along Funston Avenue. Young men were hired during the past summer to plant these trees under the guidance of the Division. An attractive brochure is available indicating the kind and location of some 30 species at 90 locations from Fulton Street to Clement Street. The Bank of America printed over 5,000 booklets of recommended trees best suited for growing in San Francisco. The list was compiled by the Department in co-operation with the Street Planting Advisory Committee and is the third edition of the booklet.

AWARDS DINNER

The Joseph Schlitz Brewing Company graciously hosted the Annual Awards Dinner for the fifth consecutive year. 20 people representing business, industry, neighborhood associations and home owners received awards for their part in improving the environment of the City.

The Joseph Schlitz Brewing Company promoted further interest in tree planting by conducting the second annual slogan contest using the theme landscaping the City's streets. The winning slogan, "Think Green," won \$250 for its author.

The Department of Public Works, through this Division of the Bureau conducted the ninth Annual Plant A Tree Week in March. Mayor Alioto proclaimed March 3-9 as Plant A Tree Week for San Francisco.

Display trees, with appropriate signs and information on the program are provided as decor for garden shows and other functions at the Hall of Flowers, neighborhood fairs and numerous evening meetings. All of these activities have been most productive in promoting private plantings.

ADVISORY COMMITTEE

The Street Planting Advisory Committee, acting as advisors to the Director of Public Works has been active for over 12 years. The members are Chairman Bill Siden, Sylvester Evans, Mrs. Aurelie Brua, Mrs. Margo Doss, Jack Spring, Thomas Chan, Keith Davey, James Gordon, Samuel Jung, Victor Reiter, Hubert Schmidt and Brian Fewer. The Committee has been responsible for plant selection and design for many of the City projects. They are to be complimented for the very important work they are doing. Without these selfless people, much of the quality of our landscaping would not exist.

EMPLOYEE TRAINING

All of the permanent gardeners have completed the two courses in horticulture offered at City College. Mr. Harry Nelson, Instructor of Horticulture at City College, conducted both a basic and an advanced class in horticulture in cooperation with Civil Service, the Recreation and Park Department and the Department of Public Works.

As the planting program expands, more of the permanent gardeners are being indoctrinated in the various maintenance requirements for street trees, health centers, parklets, neighborhood parking facilities and other urban beautification projects. These same employees, by necessity, due to the expansion of the program, are being groomed as lead men in all operations.

SEASONAL EMPLOYEES

\$32,000 was provided in the 1967-68 budget for hiring seasonal temporary help. Because of the expanding work load it is now necessary to employ six assistant gardeners practically the year around. In the very near future it will be necessary to request additional permanent employees for a larger basic permanent crew. We have a frequent turn-over of our temporary employees and too much time is spent in training new men.

ECONOMY STEPS

In order to be as efficient and economical as possible in our maintenance program, many labor-saving innovations have been undertaken.

1. Automatic irrigation systems have been installed in many of the landscaped areas and traffic islands.
2. Pre-emergent weed control chemicals are used eliminating much hand weeding.
3. Systemic insecticides are applied to the soil in tree basins to control insects reducing the need for foliage spraying.
4. A new electric hedge shears was recently put into operation speeding up the shearing of hedges.
5. The street tree program is gradually being tailored so that trees will be reasonably small and decorative without excessive annual pruning. The poorer old Acacias and Elms are removed when time permits and are replaced with smaller evergreen trees.
6. The high cost of repair to irrigation systems in the landscaped traffic islands has been a concern. Often automobiles climb the curb and break off spray heads and vacuum breakers. We have experimented with and devised a rubber riser for the spray heads which will return to an upright position after it is run over. On Geary Boulevard the vacuum breakers are being relocated closer to the light standards for protection.

Precast porous and permeable concrete tree basin covers are being tried. If they prove satisfactory, the problem of the sinking red brick installations will be eliminated.

Lodge Pole type Pine tree supporting stakes are being tried. They are 12 feet long, round, about 2 inches in diameter and treated with a preservative. The Lodge Pole stake is more reasonable than what we had been using.

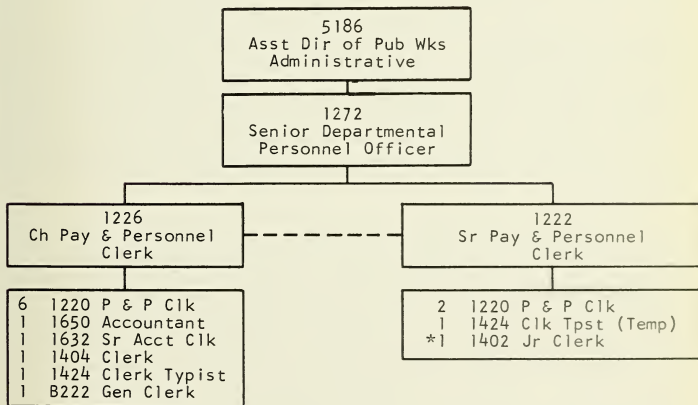
The tree planting crew is equipped with a salvaged 100 gal. tank for carrying water to provide ample irrigation at the time of planting. Liquid fertilizer is used in each tank truck of water irrigating the street trees.

PILOT TREE PROGRAM

The Pilot Tree Program has been carried on since 1955, when the Planting Division was transferred to the Department of Public Works. During this time more than 130 tree species or varieties have been planted out and their habits observed and recorded. Many good trees previously unknown in San Francisco are now being used as standard street decoration in San Francisco.

NURSERY WORK

The Division maintains three nurseries at the present time. One is located at Laguna Honda Home, where we propagate some items for our use and recan them into larger containers. The nursery at the Southeast Sewage Treatment Plant is mostly storage area for trees recently purchased and display trees. Limited propagation and training of young trees is conducted here also. The "Tree Farm" nursery, at the County Jail, is our most recent development. Plants, soil, containers and other necessary material are delivered to the site and prisoners assigned to the project are instructed on planting and training. More than 1,000 shrubs are being trained into tree form for use on San Francisco streets. We expect eventually to have 5,000 trees under cultivation.

ORGANIZATION CHART
BUREAU OF PERSONNEL ADMINISTRATION

*Position in General Office budget;
responsibility for assignment only

BUREAU OF PERSONNEL ADMINISTRATION

Albert C. Ambrose, Senior Departmental Personnel Officer

The Bureau of Personnel Administration is the central personnel agency for the Department of Public Works and a service bureau to all other operating and service bureaus of the department. The Supervisor of the Bureau of Personnel Administration advises the Director, the Assistant Directors, the bureau heads, line supervisors, and other department employees on matters dealing with personnel, be they classification, salary, discipline, assignment, transfer, time reporting, employee evaluation, Civil Service rules and regulations, Board of Supervisors ordinances and resolutions, the City Charter, the policies of the Mayor's and Chief Administrative Officer's offices, and other personnel transactions. The Bureau Chief also acts as liaison officer between the Department and the Civil Service Commission, Controller's office and Mayor's office in matters of personnel administration. The staff of the Bureau of Personnel Administration is directly involved in the preparation of all departmental time rolls and the processing of all personnel transactions, including Civil Service employee sign-up and assignment, Non-Civil Service and Limited Tenure recruiting, sign-up and assignment, the keeping of sick leave, vacation, overtime earned, personal and educational leave records, the processing of disciplinary cases, the requisitioning for permanent and temporary employments, some phases of payroll distribution, and all other personnel transactions.

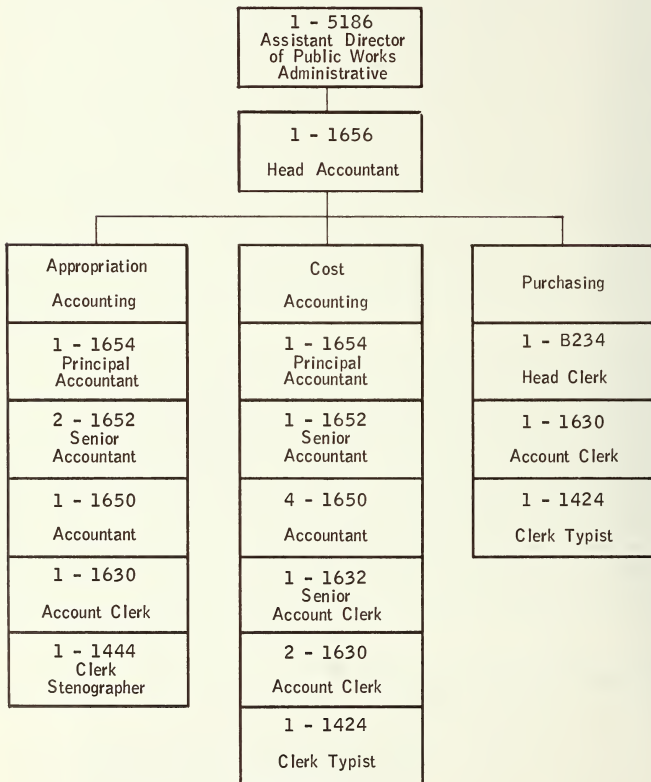
The operations of the Bureau of Personnel Administration in fiscal year 1967-68 included the following: The Bureau prepared and processed a total of 1639 time rolls involving an expenditure of approximately \$17,593,000.00. Included in this payroll expenditure was a substantial amount for temporary employees plus supplemental disability payments. There was a total of 190 requisitions for permanent civil service employees to replace vacancies due to deaths, resignations, transfers, retirements, etc. Additionally, there were 665 requisitions for temporary civil service employments due to vacation, sick leave, personal leave, reclassifications, replacements, etc. However, because of difficulty in recruiting Civil Service employments, it was necessary to employ 927 Non-Civil Service employees for these authorized positions. The inter-relationship of personnel records to the preparation of these payrolls necessitated 4435 reports to the department physician of new cases of illness to verify legitimacy of sick pay as required by ordinance. There were also 211 accident reports filed, with the necessary follow-up procedure required, which are not included in the reports to the department physician.

Bureau headquarters are at 253-260 City Hall, where the Bureau Chief and the bulk of his staff are located. A listing of the Bureau's personnel is as follows:

- 1 1272 Sr. Departmental Personnel Officer
- 1 1226 Chief Payroll and Personnel Clerk
- 1 1222 Sr. Payroll and Personnel Clerk
- 8 1220 Payroll and Personnel Clerk

- 1 1650 Accountant
- 1 1632 Sr. Account Clerk (being reclassified to 1220 Payroll and
Personnel Clerk)
- 1 1424 Clerk Typist
- 1 1424 Clerk Typist (temporary)
- 1 1404 Clerk
- 1 B222 General Clerk
- 1 1402 Jr. Clerk (see Organization Chart)

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ACCOUNTS
ORGANIZATION CHART
JUNE 30, 1968



TOTAL PERSONNEL - 20

BUREAU OF ACCOUNTS

J. Iwamoto, Head Accountant

FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of purchase order requisitions, sub-storeroom and inventories; automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; Federal, State and other trust funds, State gasoline tax subventions and bond fund accounts; capital improvement accounts for the General Fund, and Recreation and Park Department Fund; the cash revolving fund; and budget preparation and controlling accounts.

This Bureau is organized as three divisions under the Head Accountant. They are Appropriation Accounting, Cost Accounting and Purchasing. The Bureau maintains an office at 2323 Army Street to serve the Maintenance Yark bureaus and an office at 450 McAllister Street, Room 502, to serve the City Hall bureaus.

APPROPRIATION ACCOUNTING

This Division maintains accounts showing allowances, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of this Department. These accounts form the basis of controlling all transactions to assure that funds are expended for the purpose for which they were appropriated.

In addition to maintaining all of the operating accounts, this Division handles the fiscal processing of formal contracts covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and numerous capital projects for other City Departments.

The preparation and consolidation of the annual budget is also a responsibility of this Division.

COST ACCOUNTING

This Division maintains accounts showing allowances, expenditures by type, encumbrances, and balances for all work orders received by this Department.

In addition, job costs are maintained for many aspects of the Department's operations such as cost of traffic painting, cost per mile of highway maintenance, cost of side sewer installations and cost of asphalt production. This Division compiles costs to repair damages to City property under the jurisdiction of this Department, and forwards a bill to the responsible party. These costs amounted to \$23,704.65 for fiscal year 1967-68

and embraced 269 cases covering damages to automotive equipment, street structures, bridges, street signs, traffic signs, street plantings, traffic signals, traffic devices, and damages to public buildings.

PURCHASING

This Division is responsible for the supplying of equipment, materials, and supplies for the varied activities of this Department, the sub-store-room and the material yard. During fiscal year 1967-68, this Division processed 6,487 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately \$1,827,431.60 involving 32,435 items. In addition, 7,008 delivery orders involving 28,032 items, 11,581 storeroom tags involving the delivery of 34,743 items, and 97 requisitions on the storekeeper involving 1,455 items were issued.

OPERATING BUDGET OF BUREAU

<u>Purpose</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1966-67</u>	<u>1967-68</u>	<u>1966-67</u>	<u>1967-68</u>
Permanent Salaries	\$107,060	\$103,736	\$104,059	\$100,322
Overtime	450	450	449	450
Holiday Pay	611	474	569	474
Contractual Services	2,128	2,128	619	2,128
Materials and Supplies	1,954	1,500	1,949	1,464
Equipment	1,115	490	1,115	482
Services of Other Departments	7,966	50,770	7,921	50,770
Departmental Revolving Fund	<u>3,500</u>	<u>4,000</u>	<u>3,500</u>	<u>4,000</u>
Total	\$124,784	\$163,548	\$120,181	\$160,090

Five permanent positions were transferred from this Bureau to the Controller's E.D.P. Facility at the beginning of 1967-68 and in its place funds for those positions were included in services of other departments.

WORK ORDERS TO DEPARTMENT

Fiscal Year 1967-1968

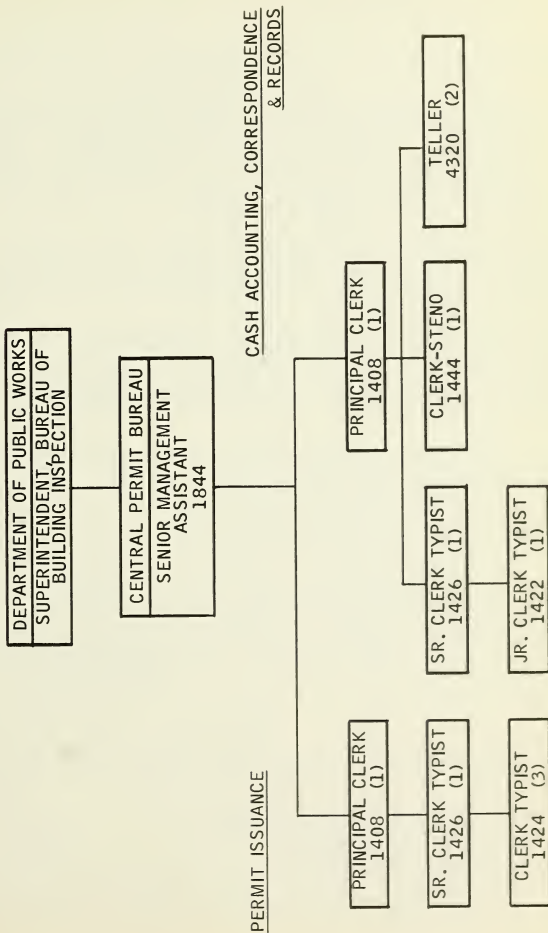
<u>Bureau</u>	<u>Number of Cost Accounts</u>	<u>Total Allowance</u>
Architecture	304	\$ 894,341.00
Building Inspection	3	69,650.00
Building Repair	489	1,688,125.98
Engineering	734	3,925,357.00
General Office (Contracts)	<u>83</u>	<u>10,964,931.22</u>
Total	<u>1,613</u>	<u>\$17,542,405.20</u>

DEPARTMENT BUDGET

<u>Bureau</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1966-67</u>	<u>1967-68</u>	<u>1966-67</u>	<u>1967-68</u>
<u>General Fund</u>				
Accounts	\$ 124,784	\$ 163,548	\$ 120,181	\$ 160,090
Architecture	126,032	122,505	121,857	117,937
Building Inspection	1,319,365	1,617,742	1,266,392	1,527,042
Building Repair	3,628,848	3,661,881	3,381,037	3,529,525
Traffic Painting	276,345	280,897	257,938	269,627
Central Permit	79,130	87,641	72,300	83,086
Engineering	948,045	1,072,927	952,601	1,019,909
General Office	865,902	905,188	777,086	668,401
General Office Improvements	2,559,741	2,887,350	2,090,092	2,454,695
Personnel Administration	80,923	95,948	76,650	80,301
Sewage Pumping Stations	196,418	214,599	195,861	210,367
Sewage Treatment Plants	1,543,347	1,665,722	1,512,718	1,629,796
Sewer Repair	1,432,957	1,487,367	1,447,570	1,502,195
Street Cleaning	3,297,374	3,607,360	3,258,465	3,507,158
<u>Special Gas Tax Street Improvement Fund</u>				
General Maintenance	1,634,904	1,634,904	1,521,659	1,634,904
Construction	3,093,500	4,226,493	1,612,293	2,682,202
1.04 Cent Funds	3,490,800	2,306,700	302,506	1,397,248
<u>Road Fund</u>				
Street Repair	2,473,111	2,605,883	2,348,876	2,526,707
Select System Construction	615,000	730,300	33,908	65,204
Traffic Engineering	1,162,950	1,157,498	1,108,401	1,101,830
General Maintenance	795,772	687,464	952,036	749,155
Construction	3,660,412	1,618,764	1,323,960	1,193,854
Street Planting	335,966	372,989	325,429	362,214
1.04 Cent Matching Funds	1,116,500	1,575,300	306,284	257,582
Total	\$34,858,126	\$34,786,970	\$25,366,100	\$28,731,029

Expenditures for capital improvements may not necessarily match allowances for any given year, since allowances may be forwarded from year to year until the project is completed.

DEPARTMENT OF PUBLIC WORKS
CENTRAL PERMIT BUREAU
ORGANIZATION CHART



CENTRAL PERMIT BUREAU

Clyde Volens - Senior Management Assistant

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works, and the collection of appropriate permit fees and deposits. Included are permits covering each aspect of the erection, alteration, demolition and moving of buildings; permits for all types of billboards and signs; permits involving the use of excavations of streets and sidewalks; and all plumbing, gas appliance, and electrical permits.

It is the duty of the staff of the Central Permit Bureau to receive applications for the various types of permits, and route them to appropriate agencies for processing. When the applications are properly approved, the staff collects necessary fees and deposits, and issues the permits.

The Central Permit Bureau is the custodian of public records relevant to permits issued by the Department of Public Works, and of all plans and specifications approved in conjunction with those permits. These records date back to the 1906 Earthquake and are assuming more importance each year in determining the status of buildings affected by our urban renewal program.

Another service performed in this Bureau is the assignment of street addresses to all new buildings and the elimination of possible confusion resulting from improper existing numbers. Our official house number records constitute an important source of information for government agencies, realtors, title insurance companies, and other activities concerned with the verification of correct street numbers for buildings.

It is a function of the Central Permit Bureau to receive payments for bills covering claims for damages to property under the jurisdiction of the Department of Public Works, and for costs in excess of deposits in the installation of side sewers. The monies collected from these bills, as well as all other monetary receipts of the Department of Public Works, are cleared through this Bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau, as of June 30, 1967, was as follows:

- 1 Senior Management Assistant
- 2 Principal Clerks
- 2 Senior Clerk Typists
- 1 Clerk Stenographer
- 2 Tellers
- 3 Clerk Typists
- 1 Junior Clerk Typist

THE FOLLOWING TABLES ILLUSTRATE THE SCOPE OF THE ACTIVITIES OF THE
CENTRAL PERMIT BUREAU

TABLE I
PERMITS ISSUED AND FEES RECEIVED

	1967-68		1966-67	
	Permits	Fees	Permits	Fees
Buildings	12,844	\$ 347,191	12,453	\$ 374,789
Application Filing Fees	9,927	(above) 50	12,132	(above) 15
Billboard	58	4,105	71	4,550
Demolition	390	1,624	344	1,149
Boiler Installation	212	5,246	175	6,145
Boiler Inspection	722	110,431	869	156,905
*Street Space	853	1,454	1,632	1,760
House Numbers	383	640	346	900
House Moving	32	390	45	690
House Moving Investigation Fee	26	32,620	46	31,956
Excavations (Pub. Util., etc.)	16,310	2,634	15,978	6,269
*Excavations & Curbs (other)	423	1,740	481	1,560
Flue Contractors Registration	89	86	78	39
Flues - New Buildings	42	417	75	478
Flues - Old Buildings	110	825	113	675
Flues - New Buildings - Coupons	775	975	675	700
Flues - Old Buildings - Coupons	348	779	280	795
Posting Notices	317	1,551	293	1,584
Flower Markets	48	1,457	47	1,270
Advertising	8	9,950	7	15,535
Surveys	16	35,112	17	51,693
Engineering Inspections	114	245,812	63	253,044
Electrical Installation Inspections	9,841	4,964	10,556	5,374
Sign Installation Inspections	2,397	31,967	2,479	32,188
Electrical Sales Inspections	2,525	156	2,526	960
Plant Owner's Registration	13	173,217	80	165,272
Plan Checking	5,694	1,875	5,862	1,800
Garage Door Coupons	625	610	700	340
Hearings for Code Variances	61	900	34	1,500
Hearings for Substitute Materials	6		10	
Plumbing Fixtures & Gas Appliance Installation & Inspection	8,891	141,844	13,634	104,330
Journeyman Plumbers License	1,388	2,776	791	1,582
Gas Appliance Dealer	47	470	55	550
Residential Inspection Reports	9	595	2	140
Residential Record Reports	5,341	26,645	4,488	22,440
Dump Permits	-	-	6	150
Blasting Permits	6	12	8	96
Sidewalk Permits	1,495	14,994	1,240	10,376
TOTAL - TABLE I	82,386	\$ 1,206,114	88,691	\$ 1,259,599
TOTAL - TABLE II	2,781	\$ 412,491	2,795	\$ 381,367
TOTAL - TABLE III		\$14,088,370		\$ 9,327,689
GRAND TOTAL - PERMITS & RECEIPTS	85,167	\$15,706,975	91,486	\$10,968,655

*Permits and Fees only. See Table II for Refundable Deposits.

TABLE II
PRIVATE TRUST FUND DEPOSITS

REFUNDABLE DEPOSITS	1967-68		1966-67	
	Permits	Deposits	Permits	Deposits
Street Space	*	\$ 19,068	*	\$ 18,240
Sub-Sidewalk	55	34,310	23	29,710
Deposit on Plans	2,244	107,850	2,291	99,565
Excavations	*	1,159	*	1,293
TOTAL	2,299	\$162,387	2,314	\$148,808

* Street Space and Excavations require both a fee and a deposit. Amounts shown are deposits only.

PARTIALLY REFUNDABLE DEPOSITS

Side Sewers	303	\$218,017	313	\$202,175
Side Sewers-Excess Costs	44	6,883	41	6,096
TOTAL	347	\$224,900	354	\$208,271

AGENCY DEPOSITS

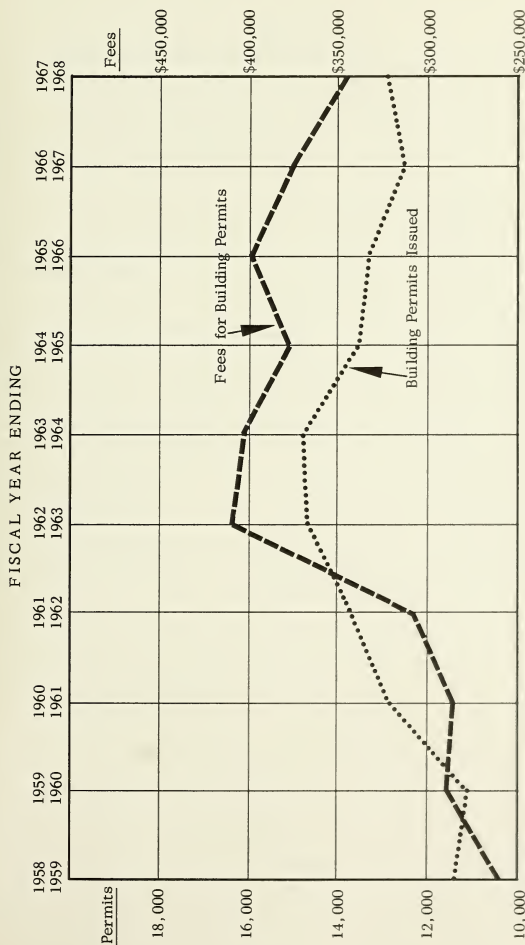
Street Improvement Bonds	135	\$ 25,204	127	\$ 24,288
TOTAL TRUST FUND DEPOSITS	2,781	\$412,491	2,795	\$381,367

TABLE III
OTHER RECEIPTS

	1967-68	1966-67
General Fund	\$ 3,766,080	\$1,368,180
Special Gas Tax - Street Improvement Fund	6,435,833	4,360,719
Road Fund	3,817,962	3,572,615
1954 Sewer Bond Fund	13,191	-
State Highway Trust Fund	10,735	16,766
Palace of Fine Arts Trust Fund	44,569	9,409
TOTAL OTHER RECEIPTS	\$14,088,370	\$9,327,689

TABLE IV
STATEMENT OF CONDITION
PRIVATE TRUST FUNDS
AS OF JUNE 30, 1968

	Balance June 30, 1967	Deposits 1967-68	Refunds 1967-68	Balance June 30, 1968
Excavation	\$ 3,483	\$ 1,159	\$ 1,425	\$ 3,217
Street Space and Sub-Sidewalk	252,489	53,378	36,088	269,779
Plans and Specifications	23,256	107,850	107,090	24,016



CORRELATION - BUILDING PERMITS AND FEES

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

Showing All Contract Work Awarded or Underway

July 1, 1967 - June 30, 1968

Table	Type of Construction	<u>Contracts Awarded</u>		Amount Expended Fiscal Year 1967 - 1968
		No.	Aggregate Value	
A	Major Thoroughfares	6	\$3,408,720.11	\$ 976,408.04
B-1	Streets - Private Contracts	8	89,950.00	66,050.00
B-2	Streets - Assessment Proceedings	8	959,677.91	332,338.10
B-3	Streets - Public Contract City Pay	16	895,305.85	632,000.11
C	Traffic Signals & Channelization	10	458,061.26	257,541.82
D-1	Sewers - Vitrified Clay & Concrete	8	1,079,113.20	1,406,669.66
D-2	Sewers - Concrete Monolith	1	208,598.00	798,149.85
E	Recreation-Park	14	379,173.16	507,293.45
F	Miscellaneous	40	2,179,144.43	1,301,523.39
G	Informal & Emergency	15	45,995.95	78,385.62
TOTALS		126	\$9,703,839.87	\$6,356,360.04

APPENDIX I

BUREAU OF ENGINEERING CURRENT CONTRACT DATA SUMMARY

On the following pages appear separate tables of Current Contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the Tables according to the following:

A b b r e v i a t i o n L e g e n d

<u>Legend</u>	<u>Description of Fund</u>
GENERAL	General Fund City & County
S. RD.	Special Road Improvement Fund
M.S.	Special Gas Tax Improvement Fund
A.P.	Assessment Proceedings - Assessed to Property Benefited Under Street Improvement Ordinance of 1934
P.P.O.	Cost Borne by Property Owners - Private Contract
60SB	Sewer Bond - Bond Issue Voted Nov. 8, 1960 - \$12,500,000
55RP	Recreation Park - " " " Nov. 8, 1955 - 7,248,000
54LHB	Laguna Honda - " " " Nov. 2, 1954 - 5,475,000
54SB	Sewer Bond - " " " June 8, 1954 - 12,645,000
48STB	Sewage Treatment - " " " June 1, 1948 - 15,000,000
47OSP	Parking - " " " Nov. 4, 1947 - 5,000,000
47SIB	Street Improvement - " " " Nov. 4, 1947 - 22,850,000
44SB	Sewers - " " " Nov. 7, 1944 - 12,000,000
64SB	Sewers - " " " June 2, 1964 - 15,623,000
64SLB	Street Lighting - " " " June 2, 1964 - 7,000,000
64LCRE	Log Cabin Ranch - " " " Nov. 3, 1964 - 1,300,000

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 A - MAJOR THOROUGHFARES

DESCRIPTION & CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
Burnett Ave. Extension Construction Street B. Fontana & Sons Inc.	<u>10-28-66</u>	12-1-67	<u>\$167,578.04</u>	\$ 96,478.04	SRd
Bosworth St. Lippard St. to Elk St. Widening O. C. Jones & Son	7-19-67	99%	417,051.00	390,780.00	MS 1960 Sew Bd SP RD
Indiana St. Mariposa St. to 20th St. Reconstruction B. Fontana & Sons Inc.	8-4-67	89%	152,744.61	128,070.00	60SB SP RD Gen
Geneva Ave. Tara St. to Ocean Ave. Widening Flora Crane Service	10-25-67	85%	229,236.00	177,570.00	1960 SB SP RD MCS
Army St. Circle - Contract 1 Rechannalization Lowrie Paving Co. Inc.	2-28-68	4%	2,301,907.00	105,660.00	64SB MS SRd
Redevelopment Area E-1 Streets Contract F Mitchell Plumbing Co.	1-19-68	33%	267,799.00	77,850.00	SRd 1964 SB
7th St. - Market St. to McAllister St. Street Extension Lowrie Paving Co.	6-14-68	0%	<u>39,982.50</u>	0	Gen MS
Total Awarded & Expended During Fiscal Year			<u>\$3,408,720.11</u>	<u>\$976,408.04</u>	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-1 STREETS - PRIVATE
CONTRACTS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
Mt. Sutro Woods Subdivision No. 1 Sutro Develop. Co.	S	12-2-64	60%	\$ 6,000.00
Tocoloma Ave. Extension G. Giosso	SCP	10-27-65	3-15-67	13,000.00
Crestmont Drive Extension Sutro Develop.	S	2-2-66	80%	5,000.00
Parnassus Ave. North of Hillway H. Goldman & Son	S	5-13-66	4-12-68	3,000.00
23rd St. - 3rd St. to Iowa S. F. Ind. Park	SCP	10-26-66	75%	18,000.00
Nibbi Court Blanken Ave. to Gillette Nibbi Bros.	SCP	10-26-66	50%	12,000.00
Gold Mine Drive N. of Onique Lane J. W. McClenehan	S	5-17-67	11-27-67	1,000.00
Worcester Ave. - Alemany Blvd. - Ramsell Harvis Constr. Co.	GCP	4-21-67	3-7-68	20,000.00
Minna St. West of 5th Tunnel Constr. McDonald & Nelson	G	8-23-67	5-10-68	7,000.00
23rd St. Minnesota to Tennessee Marks & Patterson	GCPS	9-22-67	1-10-68	6,000.00
23rd St. - Minnesota to Indiana Feedstuff Co.	GCPS	9-22-67	1-10-68	7,000.00
Mt. Sutro Woods - Subdivision No. 2 Sutro Development Co.	S	5-12-67	50%	4,000.00
Thomas More Way Sewers & Manhole Mitchell Plumbing Co.	S	1-10-68	3-20-68	4,000.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-1 STREETS - PRIVATE CONTRACTS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
Quintara St. at 37th Ave. Williams & Burrows	S	4-5-68	25%	\$ 20,000.00
Mt. Sutro Drive Sutro Development Co.	S	3-13-68	0%	5,800.00
Revere Ave. N.W. of Griffith St. Pacific Pavements		5-15-68	0%	<u>16,150.00</u>
Total Awarded During Fiscal Year				\$89,950.00
Total Value of Work Done During Fiscal Year				\$66,050.00

S = Sewers
 Gr = Grading
 C = Curbs
 P = Paving
 SW = Sidewalks

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Elsie St. Virginia St. to Esmeralda C. W. Greer	GSCP	4-16-65	8-25-67	\$ 55,506.71 (35,957.93)-
Burnett Ave. North of Dixie Alley Fay Improvement Co.	GSCP	11-2-66	3-11-68	82,652.65 (52,805.23)-
Quint St. Oakdale Ave. to Jerrold B. Pontana & Son	GSCP	10-19-67	8-24-67	92,229.54 (54,585.14)-
Army St. Vicinity of Maryland St. O. C. Jones Son	GSCP	1-27-67	7-28-67	33,762.91 (17,835.09)-
Newcomb Ave. Quint St. to Rankin St. O. C. Jones Son	GSCP	3-1-67	7-20-67	30,877.06 (380.00)-
Madison St. & Pioche St. Valmar to Gambier O. C. Jones Son	GSCP	3-15-67	11-8-67	43,589.26 (29,304.19)-
Van Dyke St. Griffith - Hawes Pacific Pavements Ltd.	SCP	4-5-67 - - -	9-25-67	24,656.74 (5,328.43)-
Santa Barbara & Head St. C/L & Shakespeare Annuzzi Concrete Svce.	GSCP	8-30-67	4-3-68	59,902.39 (45,103.14)-
Greenwich St. Sansome to Montgomery Stairs J. Kaplan Inc.	CP S.W. ST	9-27-67	2-29-68	50,875.52 (33,917.00)-

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-2 STREET ASSESSMENT PROCEEDINGS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
Ankeny-Sparta-Ward Sts. B. Fontana Sons	SCP SW	3-29-68	31%	\$63,300.00 (42,700.00)-
Juri St. West of San Jose Ave. Lowrie Paving Co.	SCP	5-17-68	0%	15,100.00 (9,600.00)-
Karen Court & Somerset S/Woolsey Flora Crane Svce.	GSCP	5-1-68	0%	119,600.00 (65,400.00)-
Jerrold Ave. Vicinity of Upton St. Pacific Pavements	GSCP	3-13-68	40%	70,700.00 (38,400.00)-
Dwight St. Goettingen to Hamilton Flora Crane Svce.	GSCP	3-27-68	0%	171,900.00 (142,000.00)-
23rd St. & Minnesota Mitchell Plumbing Co.	S	6-12-68	0%	408,300.00 (355,100.00)-
Total Awarded During Fiscal Year				\$959,677.91
Total Value of Work Done During Fiscal Year				\$332,338.10

()---Estimated or Final Amount of City Obligation
Balance through Assessment of Property Benefited
City Funds From Special Road Improvement Fund

S = Sewers
G = Grading
C = Curbs
P = Pavements
SW = Sidewalks

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-3 STREETS - PUBLIC CONTRACT CITY PAY

<u>DESCRIPTION & CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Elsie St. - Virginia St. to Esmeralda Completion of Assessment Impr. O. C. Jones & Sons	12-21-66	8-25-67	\$ 26,074.46	\$ 7,714.46	SRD
Marina Green Perimeter Roadway Pavement Reconstruction Kunz Paving Co.	1-11-67	7-28-67	88,919.82	34,199.82	SRD
Natoma St. - 1st to 2nd St. Sidewalk Narrowing Pay Improvement Co.	4-26-67	12-7-67	31,026.42	31,026.42	SRD
Buchanan St. - Hermann St. to Oak St. Pavement Reconstruction Lowrie Paving Co.	<u>5-24-67</u>	10-3-67	<u>69,140.71</u>	69,140.71	SRD
Fillmore St. Geary Blvd. to Post Street Widening Annuzzi Conc. Svce.	9-1-67	2-7-68	8,251.10	8,251.10	SRD
Grove St. & Steiner St. Pavement Reconstruction O. C. Jones & Son	8-30-67	1-8-68	32,230.81	32,230.81	SRD
Castro St. & Others Resurfacing Bragato Paving Co.	10-25-67	95%	168,745.00	135,450.00	SRD
Hill St. - Valencia to Guerrero St. Pavement Reconstruction Lowrie Paving Co.	10-20-67	3-6-68	25,481.45	25,481.45	SRD
Haight St. - Broderick to Divisadero Pavement Reconstruction & Sewer Replacement Hudson Brennan & Yee	11-15-67	5-29-68	50,008.74	50,008.74	SRD 64SB
Stanyan St. Fell St. to Fulton Widening Annuzzi Concrete Svce.	12-13-67	51%	85,587.05	41,220.00	47ST MCS SRD

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 B-3 STREETS - PUBLIC CONTRACT CITY PAY

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Laguna & Fillmore Sts. Reconstruction Lowrie Paving Co.	12-22-67	4-29-68	\$104,775.83	\$104,775.83	MS 64SB
Second St. Townsend to Brannan Reconstruction U. Peira & Sons	1-31-68	5-10-68	25,856.99	25,856.99	SRD
North Point St. & Baker St. Reconstruction McGuire & Hester	2-28-68	5-28-68	44,517.33	44,517.33	SRD
Mason St. & Taylor St. Pavement Reconstruction & Sewer Replacement Flora Crane Svce.	4-17-68	0	134,950.00	0	SRD 64SB
Howth St. Mt. Vernon to Ridge Lane Pavement Reconstruction U. Peira & Son	4-24-68	7-2-68	8,246.07	8,246.07	SRD
Clementina St. 3rd St. to East Termination Pavement Reconstruction Lowrie Paving Co.	5-1-68	7-3-68	8,481.18	8,481.18	SRD
Marina Blvd. 450 Ft. East Lyon St. Widening Annuzzi Concrete Svce.	5-17-68	12%	52,305.00	5,400.00	MCS
Sunnydale Ave. Extension Sunnydale to Persia Pavement Reconstruction Piombo Corp.	5-29-68	0	71,745.00	0	MCS
Goettingen St. & Mill St. Pavement Reconstruction O. C. Jones & Son	6-7-68	0	29,182.30	0	SRD 64SB
Lyon St. Pavement Reconstruction Annuzzi Concrete Svce.	6-21-68	0	44,942.00	0	SRD 64SB
Total Awarded & Expended During Fiscal Year			\$895,305.85	\$632,000.91	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 C - TRAFFIC SIGNALS & CHANNELIZATION

<u>DESCRIPTION & CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Traffic Signals & Related Work Downtown Steinlauf Electric	2-17-67	9-22-67	\$ 83,561.00	\$ 49,991.00	64SRD
Various Intersections Contract No. 24 Modification of Signals Emsco Electric Corp.	4-7-67	12-8-67	83,438.49	75,158.49	SRD
19th Ave. & Sloat Blvd. Channelization Annuzzi Concrete Svce.	<u>6-7-67</u>	<u>9-15-67</u>	<u>17,577.43</u>	17,577.43	MCS
Various Intersections Mission District Traffic Signals Abbett Electric Co.	8-4-67	1-16-68	51,624.20	51,624.20	SRD
Various Railroad Crossings Traffic Signals Contract 2 Emsco Electric	11-29-67	5-28-68	10,150.00	10,150.00	GEN
Various Intersections Traffic Signals Installation Contract 25A R. Flatland	1-3-68	90%	36,880.00	31,140.00	SRD
Various Intersections Traffic Signals Contract 24A Steiny & Mitchell	7-5-67	1-19-68	21,900.70	21,900.70	SRD MCS
Redevelopment Area E-1 Contract G - Various Intersec- tions - Traffic Signals Steiny & Mitchel	3-13-68	0	15,732.00	0	SRD
Various Intersections Modification Traffic Signals Steiny & Mitchel	5-10-68	0	42,864.00	0	Stat Fun SRD
Various Intersections Contract 25 - Traffic Signals & Related Work Ronston Electric	6-5-68	0	68,505.00	0	SRD

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 C - TRAFFIC SIGNALS & CHANNELIZATION

<u>DESCRIPTION & CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Clayton St. and 17th St. channelization Lowrie Paving Co.	6-21-68	0	\$101,949.80	0	MCS SRD 47BU
Various Intersections Contract 25B Traffic Signals Steiny & Mitchel	5-1-68	0	12,192.00	0	GEN SRD
Lincoln Way at 6th & 7th Aves. Channelization Lowrie Paving Co.	6-28-68	0	<u>96,263.56</u>	<u>0</u>	SRD
Total Amount Awarded and Expended During Fiscal Year			\$458,061.26	\$257,541.82	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 D-1 SEWERS - PIPE - VITRIFIED CLAY AND CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
S. E. Sewage Treatment Plant Outfall Extension Mitchell Plumbing Co.	8-3-66	11-3-67	\$368,065.38	\$ 76,915.38	54SB 60SB
S. E. Sewage Treatment Plant Effluent Outfall Extension Healy Tibbitts Co.	10-21-66	9-21-67	480,341.10	71,111.10	60SB
Utah St. - 15th St. to Division St. Sewer Replacement McGuire & Hester	11-30-66	8-31-67	64,138.10	64,138.10	64SB
24th & Noe Sts. Relief Sewer Construction Flora Crane Svce.	12-28-66	9-27-67	219,718.39	112,798.39	64SB
Palace of Fine Arts Modify Collection Facilities Bepco Inc.	1-25-67	7-26-67	10,787.09	1,967.09	64SB
Sacramento St. Gough to Polk St. Sewer Replacement McGuire & Hester	2-17-67	8-15-67	102,791.40	49,241.40	64SB
SESTP Plant Outfall Extension Islais Creek Crossing Channel Crossing Duncanson Harrelson	4-12-67	84%	483,050.00	372,690.00	60SB 64SB
California St. Walnut St. to Presidio Ave. Sewer Replacement Bepco Inc.	4-5-67	8-29-67	39,845.97	39,845.97	64SB
Walnut St. Reconstruction Sewer Replacement Lowrie Paving Co.	4-12-67	7-11-67	21,279.52	3,099.52	SRD 64SB
Taylor St. Beach St. to Jefferson St. Sewer Replacement R. B. McNair & Sons	6-14-67	10-25-67	39,679.30	39,679.30	64SB
Washington St. Sewer Re- placement & Pavt. Recons. Pay Improvement Co.	5-10-67	10-16-67	43,338.61	43,338.61	SRD 64SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 D-1 SEWERS - PIPE - VITRIFIED CLAY AND CONCRETE

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Lincoln Way - 20th Ave. & Lincoln to 14th & Irving Wm. R. Cole	10-11-67	67%	\$452,369.00	\$275,040.00	64SB 64SL
Crescent Ave. Sewer Enlargement Mitchell Plumbing	12-6-67	3-26-68	77,486.80	77,486.80	64SB
22nd Ave. Sewer - Geary to Lake Enlargement Hudson Brennan & Yee	12-20-67	98%	171,990.00	152,190.00	64SB
Jackson St. - Laurel to Locust Reconstruction McGuire & Hester	2-16-68	4-24-68	27,128.00	27,128.00	64SB
Lincoln Way - 14th & Irving to 12th & Kirkham - Sewer Reconstruction Section D-Z Flora Crane Svce.	4-17-68	0	213,300.00	0	64SB GEN
Union St. - Lyon to Baker Sewer Reconstruction Lowrie Paving Co.	5-29-68	0	69,879.40	0	64SB
Greenwich St. - Broderick to Baker Sewer Relocation Flora Crane Service	6-12-68	0	34,989.00	0	64SB
26th St. - Castro to Diamond Sewer Construction and Street Resurfacing McGuire & Hester	6-12-68	0	<u>31,971.00</u>	<u>0</u>	64SB SRD
Total Amount Awarded and Expended During Fiscal Year			\$1,079,113.20	\$1,406,669.65	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 D-2 SEWERS - CONCRETE - MONOLITHIC

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
North Point Sewer Relocation At Montgomery St. Rapid Transit Station Walter Lenkeit	1-5-66	12-8-67	\$873,603.40	\$414,063.40	GEN BART
Bancroft Griffith Contract No. 1 Intercepting Sewer McGuire & Hester	<u>6-21-67</u>	5-6-68	<u>255,746.45</u>	255,746.45	64SB US GC
Bencroft-Griffith Contract No. 2 Intercepting Sewer Flora Crane Service	10-27-67	69%	<u>208,598.00</u>	<u>128,340.00</u>	64SB
Total Amount Awarded and Expended During Fiscal Year			\$208,598.00	\$798,149.85	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 E - RECREATION AND PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Storyland Children's Zoo Monkey Island Exhibit Kenneth K. Lind	11-30-66	2-29-68	\$ 23,364.35	\$ 12,204.35	GEN
African Scene, S. F. Zoo Construction Crown Development Co.	12-30-66	2-20-68	168,850.81	48,250.81	GEN
Lincoln Park Golf Course Irrigation System Extension J. & E, Construction Co.	12-30-66	7-26-67	49,890.00	13,170.00	GEN
S. F. Zoo Storyland Children's Zoo Service Buildings Col Best Builders	3-1-67	3-27-68	70,041.82	36,741.82	GEN
S. F. Zoological Gardens New Aviary H. E. Rahlman Co.	3-3-67	9-8-67	10,643.00	4,043.00	GEN
Marina Small Craft Harbor Security Gates & Float Fenders Tech. Ent. Inc.	3-3-67	10-13-67	22,185.45	8,955.45	GEN
DeYoung Museum - Golden Gate Park Landscaping and Paving Angelo C. Sposeto Constr. Co.	3-17-67	10-31-67	13,201.20	13,201.20	GEN
S. F. Zoological Gardens Replacement Chain Link Fencing Paul Tholl Co.	4-12-67	7-22-67	8,996.00	8,996.00	GEN
M. M. Casey Recreation Area Landscaping, Paving, Irrigation Cagwin & Dorward	5-26-67	11-17-67	99,040.20	80,230.20	GEN
Golden Gate Park & Holly Park Asphalt Concrete Resurfacing Lowrie Paving Co.	6-7-67	12-29-67	68,005.67	68,005.67	GEN
Resurfacing Playground Courts At Seven Locations Malott Petersen Grundy	<u>6-7-67</u>	9-16-67	<u>63,296.00</u>	63,296.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 E - RECREATION AND PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Huntington Square Fountain Restoration Grassi American Corp.	7-5-67	10-20-67	\$ 9,953.00	\$ 9,953.00	GEN
Randall Jr. Museum Boiler Burner Conversion R. D. Miner Inc.	7-7-67	11-20-67	8,379.00	8,379.00	GEN
Golden Gate Park - Stow Lake Irrigation Valley Crest Landscaping Co.	7-26-67	2-14-68	37,842.00	37,842.00	GEN
S. F. Zoo Bear Grottos Drainage & Water Pipes Bepco Inc.	8-16-67	11-22-67	11,092.00	11,092.00	GEN
Golden Gate Park South Drive Concrete Curb Love & Haun	9-20-67	1-22-68	8,697.60	8,697.60	GEN
Stern Grove & Pinelake Park Roads & Parking Area Lowrie Paving Co.	1-10-68	3-11-68	11,358.35	11,358.35	GEN
Playground Courts at Four Locations Resurfacing Malott-Peterson-Grundy	3-22-68	6-10-68	44,787.00	44,787.00	GEN
Christopher Park, Opalo Lane Concrete Stairs Ravano Constr. Co.	5-3-68	0	6,579.00	0	GEN
Midtown Terrace Landscaping J. H. Fitzmaurice Inc.	5-15-68	0	21,786.00	0	GEN
Golden Gate Park & Mission Park Asphalt Concrete Resurfacing Pacific Pavements Inc.	5-15-68	0	18,091.00	0	GEN
Gilman Playground Grading, Landscaping, Irriga- tion A. & J. Shooter	6-14-68	0	122,986.21	0	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 E - RECREATION AND PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	
S. F. Zoological Gardens Rehabilitation Cages & Fences Anchor Post Prod.	6-21-68	0	\$ 6,935.00	0	GEN
McLaren Park Storage Lake Slide Corrections & Pipe Repair Flora Crane Svce.	6-21-68	0	42,910.00	0	GEN
McLaren Park Road Realignment B. Fontana & Sons	4-5-68	72%	<u>27,777.00</u>	<u>\$ 18,090.00</u>	RPBD
Total Awarded and Expended During Fiscal Year			\$379,173.16	\$507,293.45	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Southern Embarcadero Freeway AWSS Relocation Mitchell Plumbing Co.	3-2-66	7-21-67	\$297,068.35	\$ 61,088.35	SRD
Lincoln Way - 11th Ave. to Funston Reconstruction of Coping Emsco of S. F.	10-21-66	8-9-67	5,187.35	1,748.45	SRD
Fourth St. Sewage Pumping Sta. Check Valve Modification Mitchell Plumbing Co.	1-11-67	7-22-67	10,417.00	1,237.00	64SB
San Francisco General Hospital Lighting Parking Areas Elec. Constr. & Sales	1-8-67	7-15-67	11,545.00	1,645.00	GEN
Sunnydale Ave. Area Street Lighting Ed Hutka Elect. Co.	2-1-67	9-1-67	64,052.00	24,182.00	64SL
California St. Van Ness to Kearny St. St. Lighting & Related Work Ed Hutka Elect. Co.	4-21-67	99%	53,535.00	48,060.00	64SL
Jamestown Ave. Pedestrian Overpass Construction Nibbi Bros.	4-12-67	12-29-67	37,665.20	29,745.20	MCS
City Hall Annex Elevator Modernization Walter Petersen Co.	5-31-67	4-30-68	59,759.14	59,759.14	GEN
Gough St. - California to Washington St. Lighting & Related Work K. & W. Electric	4-21-67	7-18-67	11,973.00	11,973.00	GEN SPRD
SESTP PLANT Contract 2 Waste Return Piping Jack Rosen Inc.	5-3-67	1-7-68	54,611.00	53,576.00	64SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
SESTP Plant Automatic Samplers S. & Q Constr. Co.	5-26-67	2-16-68	\$ 21,704.00	\$ 21,704.00	64SB
Log Cabin Ranch Additions to Sewage Treatment Plant R. W. Johnson & Son	<u>6-14-67</u>	6-24-68	<u>73,878.72</u>	73,878.92	64LCB
Hyde St. Trees - Beach St. to Greenwich Sidewalk Trees Albert Bidegain	7-19-67	1-18-68	7,593.46	7,593.46	SRD
12th St. - South Van Ness to Howard Street Lighting R. Flatland	7-5-67	3-1-68	8,464.00	8,464.00	SRD GEN
Fishermans Wharf Area Stage I Street Lighting Ed Hutka Electric	7-5-67	3-8-68	22,954.25	22,954.25	SRD GEN
Alemanay Blvd. - Ocean to Onondaga Retaining Wall & Dr. System McGuire & Hester	8-9-67	11-8-67	10,600.00	10,600.00	SRD
Grant Ave. & Adjacent Streets Street Lighting Ed Hutka Electric	8-4-67	3-14-68	25,682.31	25,682.31	64SLB
Third St., Arthur to Bayshore Street Lighting Abbett Electric Co.	8-25-67	6-10-68	52,858.56	52,858.56	64SLB
SESTP Plant Outfall Extension Booster Pump Station Rothschild & Raffin	10-11-67	36%	796,860.00	257,580.00	64SB
Junipero Serra Blvd. at Alemanay Landscaping Valley Crest Landscaping	9-15-67	2-8-68	15,334.47	15,334.47	SRD

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Edgewood, Willard, Blemont, Farnsworth Street Lighting Emsco Electric Corp.	9-13-67	4-4-68	\$ 17,422.30	\$17,422.30	SRD GEN
Sunset Blvd. Landscaping & Irrigation A. & J. Shooter Inc.	10-6-67	3-27-68	69,011.66	69,011.66	SRD
Laguna Honda Hospital Refrigeration Alteration Linford Service	10-6-67	1-25-68	5,612.23	5,612.23	GEN
Bay, Mason, Powell, Stockton Street Lighting Emsco Electric Corp.	9-27-67	4-15-68	57,066.00	57,066.00	SRD GEN
Mission Branch Library Lighting Modernization Steinlauf Electric Co.	10-25-67	6-25-68	9,751.00	9,751.00	GEN
Ignacio Ave. - Gilroy to Jamestown Slide Repair Pacific Excavators	10-25-67	98%	9,128.00	8,550.00	SRD
Geneva Ave. - Mission to Santos Street Lighting Steinlauf Electric	11-22-67	99%	72,076.50	54,450.00	64SL
Burnett Ave. Extension Contract 2 Guard Rail Bowers Engr. Co.	11-24-67	5-6-68	4,716.71	4,716.71	SRD
Downtown Area Street Lighting Steinlauf Electric Co.	12-13-67	79%	208,123.00	148,770.00	64SLB SRD
Eucalyptus Drive 19th to Meadowbrook Street Lighting Ets Hokin Corp.	12-20-67	5-24-68	34,655.00	34,655.00	64SLB
SESTP Plant Miscellaneous Impr. Ahnger Fornoff & Bradford	2-7-68	97%	41,743.00	36,630.00	64SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
RSSTP Plant Reconstruct Elec. Conduit Pratt Electric Co.	2-14-68	6-26-68	\$ 10,669.00	\$ 10,669.00	60SB
Pacific Ave. - Van Ness to Front Street Lighting Overhead Electric Co.	2-14-68	20%	55,740.85	10,350.00	64SLB SR
Eureka Valley - Collingwood to 18th - Parking Facility No. 2 Lowrie Paving Co.	3-27-68	6-29-68	21,019.00	21,019.00	GEN
Burnett Ave. - Funston Ave. Police & Fire Alarm System Steiny & Mitchel	3-13-68	5-15-68	7,976.58	7,976.58	GEN
City Hall Assessor's Office Electrical Work Decker Electric Co.	2-28-68	98%	10,179.00	9,090.00	GEN
Laguna Honda Hospital Misc. Electric Improvements Pratt Electric Co.	3-13-68	50%	13,669.00	6,120.00	GEN
Russian Hill Area Stage I Street Lighting & Related Work Rudolph Electric Co.	4-10-68	30%	8,190.60	0	SRD GEN
Sunset Blvd. - Pacheco to Taraval Landscape Irrigation System A. & J. Shooter Inc.	5-29-68	0	76,672.00	0	SRD
Oak St. - Franklin to Hayes Sidewalk Trees Valley Crest Landscape	5-29-68	0	28,130.00	0	SRD
Bay St. - Columbus to Fillmore St. Lighting & Related Work Ets Hokin Corp.	6-14-68	0	81,597.35	0	SRD
Potrero Ave. - 25th St. to Divi. Sidewalk Trees Valley Crest Landscape	5-29-68	0	23,762.00	0	SRD
Van Ness Ave. - Washington to North Point Center Island Landscaping Batista Landscape Svce.	6-5-68	0	68,522.50	0	SRD 64SLB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 F - MISCELLANEOUS

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
Hyde St. Greenwich to Washington Sidewalk Trees Valley Crest Landscaping	6-5-68	0	\$ 12,110.00	0	SRD
Van Ness Ave. Hayes St. to Grove St. Center Island Landscaping Batista Lands. Service.	6-5-68	0	7,270.30	0	64SLB SRD
Lake St. Arguello to Park Presidio Sidewalk Trees A. & J. Shooter	6-12-68	0	16,918.00	0	SRD
Geary Blvd. Masonic to 33rd Ave. Irrigation System Modification R. Flatland	6-14-68	0	54,480.00	0	SRD
Lake St. Park Presidio to 24th Ave. Sidewalk Trees A. & J. Shooter	6-12-68	0	12,521.50	0	SRD
Mansell St. University to Shelley Drive Island Landscaping A. & J. Shooter	6-14-68	0	18,234.80	0	SRD
Twin Peaks Blvd. Portola & Panorama Slide Repairs Buchanan & Clement	6-14-68	0	20,233.00	0	SRD
Brotherhood Way Lake Merced Blvd. to Thomas More Way Landscaping A. & J. Shooter	6-21-68	0	107,844.00	0	SRD
Columbus Ave. North Point to Kearny Sidewalk Trees Batista Lands. Service	6-14-68	0	53,852.50	0	SRD
Total Awarded & Expended During Fiscal Year			\$2,179,244.43	\$1,301,523.39	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 G - INFORMAL CONTRACTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Child St. & Telegraph Place St. Light & Related Work Ed Hutka Elect. Co.	3-24-67	8-31-67	\$ 2,437.00	\$ 2,437.00	SRD
Elsie St. - Virginia to Esmeralda Sewer Reconstruction O. C. Jones & Son	3-3-67	8-1-67	9,398.15	9,398.15	54SB
Selma Way Stairway Railing Trans Western Constr. Co.	4-21-67	8-2-67	4,200.00	4,200.00	SRD
Kearny St. South of Chestnut Street Lighting West Coast Electric Co.	5-5-67	8-31-67	770.00	770.00	SRD
Candlestick Park Stadium Reconstr. Handrails Star Iron Works	5-12-67	8-15-67	3,796.00	3,796.00	GEN
Elsie St. - Virginia to Esmeralda Sewer Reconstruction O. C. Jones & Son	5-17-67	7-28-67	5,996.00	5,996.00	54SB
3rd St. Movable Bridge Bumper Repair Schrader Iron Works	5-31-67	9-28-67	2,484.00	2,484.00	SRD
Market St. - Drumm to Davis Sewer Reconstruction Mitchell Plumbing Co.	6-14-67	8-17-67	13,115.85	13,115.85	GEN
North Point Sewer Relocation at Montgomery St. Pump Installation Mitchell Plumbing Co.	6-16-67	8-29-67	2,000.00	2,000.00	BART GEN
North Point Sewer Relocation at Montgomery St. Ground Water Removal Mitchell Plumbing Co.	6-28-67	8-29-67	1,826.67	1,826.67	BART GEN
Stockton St. Tunnel Contract 2 Rehabilitation Mel Barnes Co.	8-4-67	11-9-67	4,847.00	4,847.00	SRD

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 G - INFORMAL CONTRACTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
War Memorial Buidling Exhaust Fan Alteration Linford Service	10-11-67	6-6-68	\$ 3,217.20	\$ 3,217.20	GEN
3RD St. Bridge Operators House Sewer Connection Bragg Plumbing Co.	10-20-67	12-26-67	1,086.00	1,086.00	SRD
Funston Ave. & 14th Temporary Sewer Mitchell Plumbing Co.	11-15-67	1-19-68	2,280.10	2,280.10	54SB
California St. at Gough St. Street Lighting Emsco Electric Co.	11-22-67	5-17-68	3,427.00	3,427.00	GEN
Burke, Custer, Davidson Sts. Debris Removal Flora Crane Service	10-11-67	1-5-68	3,840.00	3,840.00	SRD
Mansell St. at McLaren Park Lighting Steiny & Mitchell	10-20-67	2-5-68	4,850.00	4,850.00	SRD
Blanken Ave. at James Lick Fwy. Underpass Lighting Ets Hokin Corp.	1-3-68	5-17-68	2,500.00	2,500.00	SRD
Telegraph Hill Area Contr. 2 Street Lighting Abbett Electric Co.	2-14-68	6-20-68	558.00	558.00	SRD
Richardson Ave. at Broderick St. Sidewalk Narrowing Annuzzi Concrete Service	5-22-68	7-24-68	4,259.65	4,259.65	GEN
Ignacio Ave. Jamestown to Gilroy Slide Repair Pacific Excavators	5-29-68	95%	5,000.00	0	SRD
Juri St. St. Lighting & Related Work Emsco Electric	4-10-68	6-28-68	1,497.00	1,497.00	SRD

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1967-1968 G - INFORMAL CONTRACTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Revere Ave. - Hawes to Griffith Improvement Pacific Pavements Co.	4-10-68	0	\$ 4,254.00	0	SRD
Mission St. at Morse & Whipple Traffic Island Landscaping Munkdale Bros.	5-22-68	0	3,450.00	0	SRD
Jamestown Ave. Pedestrian Overpass Anchor Post Prod.	6-21-68	0	<u>930.00</u>	<u>0</u>	MS
Total Awarded and Expended During Fiscal Year			\$45,995.95	\$78,385.62	

APPENDIX II

BUREAU OF ARCHITECTURE CURRENT CONTRACT DATA SUMMARY Showing All Contract Work Awarded or Under Construction July 1, 1967 - June 30, 1968

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1967-68
A-1	New School Construction	9	\$7,183,759.00	\$3,611,000.67
A-2	Misc. Alterations - Schools	55	2,334,260.00	1,876,709.18
A-3	Acoustical Work	11	490,192.00	407,626.76
A-4	Roofing Jobs	6	70,722.00	22,187.00
A-5	Resilient Flooring	1	4,216.00	0
A-6	Int. & Ext. Painting	32	323,729.00	239,433.12
A-7	Yard Paving	6	48,790.00	44,863.00
B-1	Fire Department - New Construction	3	858,682.00	488,525.95
B-2	Fire Department - Reconstruction	3	9,108.00	9,288.85
C-1	S.F. General Hospital	14	738,080.00	630,306.82
C-2	Laguna Honda Hospital	4	74,921.00	44,833.80
C-3	Health Center Building	10	1,755,660.00	1,665,056.25
D	DeYoung Museum	6	32,358.00	24,050.00
E	Youth Guidance Center	4	50,684.00	46,568.39
F	Civic Center	20	725,422.00	493,361.11
G	Hall of Justice	14	92,210.46	49,210.83
H	Miscellaneous	33	10,086,240.50	9,114,090.15
Totals		231	\$24,879,033.96	\$18,767,111.88

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956, \$27,000,000

District	Funds of S.F. Unified School District
Childrens ¹ Center	S.F. Unified School District, Special Fund
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954, \$5,830,000
Private	Private Donation
1964 School	S.F. Unified School District Bond Issue voted November 3, 1964, in amount of \$31,464,500
1964 Bond Fund	Fire Department Bond Issue voted November 3, 1964, in amount of \$4,890,000
1964 Log Cabin Bond Fund	Bond Issue approved November 3, 1964, in amount of \$1,300,000 for a Juvenile Camp School

Description & Contractor	CURRENT CONTRACT DATA 1967-1968			Amount Expended 1967-68	Fund
	Awarded	Completed Date or %	Contract Amount		
A-1 NEW SCHOOL CONSTRUCTION					
Diamond Heights Elem. Sch. (2600) Gen Construction F.P. Lathrop Const. Co.	1-19-66	8-30-67	\$ 974,900.00	\$978,219.86	1964 School
City College of SF (2700) Educ. Services Bldg. Carl W. Olson & Son	12-28-66	95%	\$1,239,500.00	\$970,266.00	1964 School
Mission Nursery (2713) New Addition Kenneth K. Lind	2-1-67	1-1-68	\$ 26,391.00	\$ 29,105.81	1964 School
Paul Revere School Annex (2850) General Construction Martinelli Const. Co.	6-7-67	76.3%	\$ 826,200.00	\$586,303.00	1964 School
Treasure Island Sch. (2750) General Construction Payne Const. Co.	6-30-67	73%	\$ 465,786.00	\$323,386.00	School District Special Reserve
Buena Vista School (2900) General Construction Martinelli Const. Co.	8-2-67	30.6%	\$ 878,000.00	\$240,698.00	1964 School
Burnett Elementary School (2825-R) General Construction Pacific Coast Builders	10-4-67	50%	\$ 739,000.00	\$281,000.00	1964 School
El Dorado Elementary School (2875) General Construction Arntz Construction	10-25-67	25%	\$ 744,000.00	\$ 168,022.00	1964 School

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-1 NEW SCHOOL CONSTRUCTION					
City College of S.F. (2800-R) Lab & Classroom Bldg. Wright & Oretsky	3-29-68	2%	\$1,290,000.00	\$ 52,000.00	1964 School
Total Aggregate Value and Amount Expended			<u>\$7,183,759.00</u>	<u>\$3,611,000.67</u>	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-8	Fund
A-2 MISC. ALTERATIONS					
Various Schools (2664) Wire Mesh Enclosures U.S. Steel Corp.	5-20-66	8-14-67	\$ 3,162.00	\$3,162.00	District
Kate Kennedy School (2611) Gen. Rehabilitation DeNarde Const. Co.	10-7-66	99½%	\$243,192.00	\$230,689.00	1964 School
Mission High School (2716) Elevator Replacement Wm. McIntosh & Son	10-21-66	10-31-67	\$ 27,444.00	\$ 27,629.98	District
Polytechnic High Sch. (2741-R) Elevator Replacement Leon Carlen	2-17-67	11-21-67	\$ 42,346.00	\$ 42,062.07	District
Various Schools (2733) Relocate Portable Bldgs. Leon Carlen	3-8-67	8-11-67	\$31,950.00	\$ 31,780.32	District
Marina Junior High Sch. (2718) Rehab. Homemaking Facilities Walter Petersen & Co.	3-15-67	10-31-67	\$ 57,980.00	\$ 58,157.82	District
Presidio Jr. High Sch. (2749) Rehab. Homemaking Facilities Kenneth K. Lind	4-12-67	12-15-67	\$ 40,410.00	\$ 41,373.00	District
Pacific Heights Adult Sch. (2693) Struct. Alt. & New Elevator Arntz Brothers	4-21-67	6-10-68	\$238,700.00	\$247,454.46	1964 School

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-2 MISC. ALTERATIONS (cont.)					
Woodrow Wilson High Sch. (2748) New ROTC Rifle Range H.E. Rahlmann Co.	5-5-67	10-20-67	\$ 39,862.00	\$39,862.00	District
Irving M. Scott School (2776) General Rehabilitation Leon Carlen	5-5-67	12-4-67	\$ 81,400.00	\$89,196.67	1964 School
Various Schools (2801) Boiler Replacement Northern Plumbing & Heatg.	5-5-67	10-31-67	\$ 52,391.00	\$52,391.00	District
Various Schools (2788) Service Counter Alt. Nibbi Brothers	5-5-67	9-1-67	\$ 7,173.00	\$ 7,173.00	District
Hawthorne School (2793) New Storage Room Michael Bros. Const.	5-5-67	9-15-67	\$ 6,525.00	\$ 6,525.00	District
Louise M. Lombard Sch. (2778) General Rehabilitation Biltwell Const Co.	5-5-67	1-30-68	\$175,777.00	\$180,382.22	1964 School
Abraham Lincoln High Sch. (2812) New Ceramics Workshop H.E. Rahlmann Co.	5-24-67	10-26-67	\$ 8,281.00	\$ 8,420.51	District
Polytechnic High School (2808) New Girls' Dance Studio & Weight Lifting Room Leon Carlen	5-24-67	11-6-67	\$ 16,150.00	\$16,150.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-2 MISC. ALTERATIONS (cont.)					
Mission High School (2772) Rehab. Chemistry Lab. Leon Carlen	6-14-67	1-22-68	\$44,612.00	\$44,833.24	District
Presidio Jr. High Sch. (2780-R) Alt. to Electronic Shop Leon Carlen	6-14-67	4-24-68	\$45,000.00	\$45,000.00	District
Childrens' Centers (2822) Storage Sheds - Various Nurseries Pearson & Johnson	6-14-67	10-30-67	\$ 4,279.00	\$ 4,279.00	Childrens' Center
Hillcrest School (2771) Reloc. Portable Classrooms H.E. Rahlmann Co.	6-14-67	9-29-67	\$12,232.00	\$12,232.00	District
Samuel Gompers High School (2798) Counseling Rooms Ravano Construction	6-21-67	11-6-67	\$ 9,626.00	\$ 9,626.00	District
Geo. Washington High Sch. (2824) Service Counter Alt. Wm McIntosh & Son	6-21-67	9-27-67	\$ 3,657.00	\$ 4,161.66	District
City College of S.F. (2833) Replace Boiler Controls Combustion Maint. Co.	6-30-67	11-7-67	\$ 5,892.00	\$ 5,891.63	District
Various Schools (2817) Replace Boiler Controls Cornely Company	6-30-67	10-31-67	\$12,195.00	\$12,195.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont)					
Mission High School (2829) Rehab. ROTC Facilities Moreau Const. Company	6-30-67	1-18-68	\$ 42,990.00	\$ 45,110.13	District
Monroe & Marshall Schools (2814) Food Service Additions Pearson & Johnson	7-12-67	11-9-67	\$ 12,977.00	\$ 12,977	District
Michael-Angelo Playground (2745) Rehabilitation Mattern Construction	7-21-67	3-31-68	\$ 21,300.00	\$ 21,942.24	District
City College of S.F. (2848) Landscaping & Irrigation A&J Shooter Inc. of Marin	7-26-67	6-24-68	\$ 154,626.00	\$ 159,538.89	District
Aptos Jr. High & City College (2852) Install Roof Ventilators Moreau Construction Co.	7-26-67	11-3-67	\$ 3,572.00	\$ 3,572.00	District
Kate Kennedy School (2810) Boiler Replacement Mitchell Plumbing Co.	8-2-67	11-10-67	\$ 8,900.00	\$ 8,900.00	District
Bd. Of Education Bldg. (2866) New Lighting Fixtures Decker Electric Co. Inc.	8-9-67	2-1-68	\$ 1,279.00	\$ 1,203.00	District
Presidio Jr. High Sch. (2869) Elec. Alt. to Kitchen Grand Elec. Co.	9-1-67	12-20-67	\$ 535.00	\$ 535.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont)					
City College of S.F. (2855) Roadway & Pathway Lighting Standard Electric Co.	9-1-67	4-16-68	\$ 51,050.00	\$ 51,050.00	1964 School
Sunshine Orthopedic School (2847) Alt. for New Tele-Classrooms Walter Petersen & Co.	9-1-67	1-18-68	\$ 6,090.00	\$ 6,090.00	District
Francisco Jr. High School (2861) Racks for Garbage Cans Pearson & Johnson	9-27-67	2-14-68	\$ 2,975.00	\$ 2,975.00	District
Admin. Office Bldg. (2876) Acous., Lighting, & Misc. Elec. Constr. & Sales	9-27-67	3-28-68	\$ 4,690.00	\$ 5,399.36	District
Woodrow Wilson High Sch. (2871) Tape Recording & Duplicat. Ctr. Trans-Western Construction	10-4-67	2-9-68	\$ 10,481.00	\$ 10,481.00	(ESEA of 1965)
Marina Jr. High School (2880) Removal Step-up Flooring Frank Portman Co.	10-4-67	1-11-68	\$ 3,098.00	\$ 3,098.00	District
City College of S.F. (2879) Reloc. Lighting Distribution Section, Men's Gymnasium Decker Elec. Co. Inc.	10-4-67	1-12-68	\$ 6,642.00	\$ 6,642.00	District
John O'Connell Voc. High Sch. (2834) Appliance Repair Shop Mattern Construction	11-8-67	3-31-68	\$ 22,422.00	\$ 22,422.00	MDTA Project

Description & Contractor	CURRENT CONTRACT DATA 1967-1968			Amount Expended 1967-68	Fund
	Awarded	Completed Date or %	Contract Amount		
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
Balboa High School (2864) Viewing Stand Seating H.E. Rahlmann Co.	11-8-67	98%	\$ 43,982.00	\$ 43,830.00	District
Lincoln Building (2894) Mech. & Elec. Alts. Trans-Western Const.	11-8-67	6-6-68	\$ 122,340.00	\$ 122,400.98	District
Woodrow Wilson High Sch. (2911) Cafeteria Wind Screens Mattern Construction	12-15-67	4-18-68	\$ 2,865.00	\$ 2,865.00	District
Lincoln Building (2917) Basement Retaining Wall Stenmark Constr. Co. Inc.	1-3-68	3%	\$ 33,280.00	\$ 901.00	District
Bd. Of Education (2895) New ROTC Offices & Library Lighting Pearson & Johnson	12-13-67	5-28-68	\$ 19,872.00	\$ 19,872.00	District
A. Lincoln High Sch. (2903) Alt to Graphic Arts Rooms Kenneth K. Lind	2-7-68	86%	\$ 43,897.00	\$ 93,976.00	District
John Adams Adult Sch. (2932) New Water Supply Main DeNarde Construction	2-7-68	5-3-68	\$ 4,220.00	\$ 4,220.00	District
Bd. Of Education (2872) Shop Bldg. Renovations S.J. Amoroso Const. Co.	3-6-68	14%	\$ 398,424.00	\$ 56,081.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-2 MISCELLANEOUS ALTERATIONS (cont.)					
George Washington High Sch. (2915) Reloc. Portable Classrooms H.E. Rahlmann Co.	3-6-68	5-26-68	\$ 6,632.00	\$ 6,632.00	District
Board of Education (2943) New Jalousies & Window Guards Trans-Western Construction	3-13-68	6-5-68	\$ 1,955.00	\$ 1,955.00	District
John Muir & Hunters Pt. II (2944) Wire Mesh Enclosures H.E. Rahlmann Co.	3-27-68	5-21-68	\$ 1,413.00	\$ 1,413.00	District
Farragut School (2839) Removal of Fire Escape Pearson & Johnson	4-10-68	50%	\$ 1,895.00	0	District
Hawthorne School (2951) Kitchen Alterations Trans-Western Const.	4-10-68	25%	\$ 3,624.00	0	District
Yerba Buena School (2914-R) New Kitchen & Cafeteria Trans-Western Const.	5-22-68	0	\$ 31,988.00	0	District
John Muir School (2972) New Classrooms & Misc. Moreau Construction Co.	6-14-68	0	\$ 54,010.00	0	District
Total Aggregate Value and Amount Expended			\$2,334,260.00	\$1,876,709.18	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-3 ACOUSTICAL WORK					
Portola Jr. High Sch. (2724) Install Acoustical Ceiling & Lighting Fixtures Arthur W. Baum	11-30-66	11-20-67	\$49,640.00	\$49,456.55	1964 School
Francisco Jr. Hi. Sch. (2692) Install Acoustical Ceiling & Lighting Fixtures Decker Electric Co.	3-8-67	1-20-68	\$44,999.00	\$45,210.90	District
Winfield Scott School (2762) Install Acoustical Ceiling & Lighting Fixtures Pratt Electric Co.	5-5-67	1-10-68	\$38,896.00	\$38,896.00	1964 School
Mission High School (2806) Install acoustical Ceiling & Lighting Fixtures Decker Electric Co.	5-24-67	9-6-67	\$36,130.00	\$36,130.00	District
Sanchez School (2766) Install Acoustical Tile, Light Fixtures & Misc. Edw. Scott Elec. Co. Inc.	5-24-67	2-1-68	\$73,851.00	\$73,851.00	1964 School
Edw. Robeson Taylor Sch. (2799) Install Acoustical Tile, Light Fixtures, & Misc. Edw. Scott Elec. Co. Inc.	5-24-67	9-27-67	\$35,230.00	\$35,230.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-3 ACOUSTICAL WORK (cont.)					
Parkside School (2765) Install Acoustical Ceilings & Lighting Fixtures & Misc. Decker Elec. Co. Inc.	5-24-67	10-27-67	\$ 68,876.00	\$ 70,103.31	1964 School
Everett Jr. High Sch. (2773) Acous. Tile, Lighting Fixtures & Misc. Work Pratt Electric Co.	6-21-67	1-23-68	\$ 51,149.00	\$ 51,149.00	District
J. Adams Adult School (2813) Acoustical Tile Ceilings & Electrical Work Loehrer Acoustics	7-12-67	10-18-67	\$ 7,600.00	\$ 7,600.00	MDTA Project
John Muir School (2959) Tile & Light Fixtures Mc Clure Electric	5-29-68	0	\$ 53,290.00	0	District
Laguna Honda School (2960) Acous. Ceilings & Adn. Light Fixtures Wm Mc Intosh & Son	5-22-68	0	\$ 30,531.00	0	District
Total Aggregate Value and Amount Expended			\$490,192.00	\$407,626.76	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-4 ROOFING JOBS					
Jose Ortega School (2786) New Rain Gutters & Leaders Atlas Htg. & Vent. Co.Ltd.	4-12-67	8-3-67	\$ 2,746.00	\$ 2,746.00	District
Junipero Serra School (2849) ReRoofing & Related Work Moreau Construction Co.	7-26-67	11-2-67	\$12,021.00	\$12,021.00	District
Hunters Point # 2 Annex (2898) ReRoofing & Related Work Sunset Roofing & Siding	11-8-67	1-8-68	\$ 1,851.00	\$ 1,851.00	District
Visitation Valley School (2925) ReRoofing of Bungalows Howard M. Green, Inc.	2-7-68	4-18-68	\$ 4,789.00	\$ 4,789.00	District
Grant School (2947) Roof Deck Repairs Malott & Peterson-Grundy	3-27-68	5-2-68	\$ 780.00	\$ 780.00	District
Sunshine Orthopedic Sch. (2909) Roof Rehabilitation Western Roofing Service	4-10-68	0	\$48,535.00	0	District
Total Aggregate Value and Amount Expended				<hr/>	
				\$70,722.00	\$22,187.00

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-5 RESILIENT FLOORING					
Edison Childrens' Center (2971)					
Carpet and					
Floor Covering					
Holsinger, Inc.	5-29-68	0	\$4,261.00	0	District
			<hr/>	<hr/>	
Total Aggregate Value and Amount Expended			\$4,261.00	0	

CURRENT CONTRACT DATA 1967-1968					Fund
Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	
A-6 PAINTING					
Mark Twain School (2735) Ext. Painting C.L. Disheroon Paint Co.	1-11-67	8-30-67	\$4,621.00	\$4,621.00	District
Starr King School (2739) Ext. Painting Amity Painting Service	1-18-67	8-1-67	\$7,985.00	\$7,985.00	District
Alamo School (2740) Ext. Painting Strom Painting	1-18-67	9-1-67	\$6,650.00	\$6,650.00	District
Sanchez School (2753) Ext. Painting C.L. Disheroon Paint Co.	3-8-67	9-6-67	\$7,846.00	\$7,846.00	District
Hillcrest School (2755) Ext. Painting C.L. Disheroon Paint Co.	3-8-67	9-5-67	\$7,648.00	\$7,648.00	District
Twin Peaks School (2761) Ext. Painting John Kosta	3-8-67	8-10-67	\$2,440.00	\$2,440.00	District
Jose Ortega School (2775) Int. & Ext. Painting Strom Painting	3-24-67	8-8-67	\$11,285.00	\$12,205.12	District
San Miguel School (2768) Ext. Painting W.G. Thompson Painting Co.	3-22-67	8-29-67	\$15,832.00	\$15,832.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-6 PAINTING (contd.)					
H. Hoover Jr. High Sch. (2782) Interior Painting Giampolini & Co.	4-12-67	8-28-67	\$ 6,393.00	\$ 6,393.00	District
Yerba Buena Sch. Annex (2784) Interior Painting Beck Brothers	4-12-67	8-1-67	\$ 9,560.00	\$ 9,560.00	District
Garfield School (2791) Interior Painting Hayden G. Neal	4-12-67	9-1-67	\$ 9,860.00	\$ 9,860.00	District
Commodore Stockton Sch. (2787) Interior Painting C.L. Disheroon Paint Co.	4-21-67	9-1-67	\$ 9,487.00	\$ 9,487.00	District
John O'Connell Voc. Hi. School (2804) Interior Painting W.G. Thompson	5-5-67	8-25-67	\$34,472.00	\$34,472.00	District
Mission High School (2803) Interior Painting Beck Brothers	5-5-67	9-6-67	\$19,694.00	\$36,130.00	District
Galileo High School (2805) Paint., flooring, Misc. Wk. Trans-Western Const.	5-5-67	9-1-67	\$19,442.00	\$19,442.00	District
Geo. Washington High School (2795) Interior Painting & Wall Covering A. Quandt & Sons, Inc	5-5-67	9-6-67	\$ 5,700.00	\$ 5,700.00	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-6 PAINTING (contd.)					
Geo. Washington Hi. Sch. (2796) Vitreous Wall Coating In Stairways J. Wm Sorensen, Inc.	5-5-67	9-6-67	\$ 12,460.00	\$ 12,460.00	District
Various Schools (2819) Painting Game Lines Fiberized Bar & Line Co.	6-30-67	8-11-67	\$ 4,920.00	\$ 4,920.00	District
Junipero Serra School (2846) Exterior Painting A. Quandt & Sons, Inc.	7-12-67	10-30-67	\$ 7,400.00	\$ 7,400.00	District
Gough-Page & Potrero Terrace Children's Centers (2878) Painting C.L. Disheroon Paint Co.	10-4-67	1-11-68	\$ 6,631.00	\$ 6,631.00	Children's Ctr.
Lincoln School (2924) Exterior Painting Benco Painting	3-6-68	0	\$ 4,082.00	0	District
Sutro School (2933) Exterior Painting Amity Painting Service	3-6-68	25%	\$ 7,500.00	\$ 1,519.00	District
Jedediah Smith Sch. (2923) Exterior Painting R.P. Paoli & Co.	3-6-68	0	\$ 5,790.00	0	District
Burnett School (2927) Exterior Painting R.P. Paoli & Co.	3-6-68	50%	\$ 4,830.00	0	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-6 PAINTING (contd.)					
Louise M. Lombard Sch. (2937) Ext. Painting Giampolini & Co.	3-13-68	0	\$ 9,060.00	0	District
Winfield Scott Sch. (2928) Exterior Painting Cal-Western Painting Co.	3-22-68	65%	\$ 6,884.00	\$ 4,027.00	District
Dudley Stone School (2941) Exterior Painting Russell Hinton Co.	3-27-68	22%	\$15,363.00	0	District
Washington Irving Sch. (2940) Exterior Painting Beck Brothers	3-27-68	0	\$ 4,960.00	0	District
Mc Kinley School (2948) Exterior Painting Beck Brothers	4-5-68	20%	\$10,270.00	\$ 1,849.00	District
Aptos Jr. High Sch. (2949) Exterior Painting Russell Hinton Co.	4-5-68	30%	\$10,250.00	\$ 2,214.00	District
Yerba Buena School (2953) Interior Painting R.P. Paoli	4-10-68	8%	\$10,584.00	0	District

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-6 PAINTING					
Grant School (2952) Interior Painting Beck Brothers	4-10-68	20%	\$ 23,830.00	\$ 2,142.00	Dis trict
Total Aggregate Value and Amount Expended			\$323,729.00	\$239,433.12	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
A-7 YARD PAVING					
Bessie Carmichael & Ortega Sch. (2821) Yard Paving & Game Lines Malott& Peterson-Grundy	6-21-67	8-30-67	\$ 3,335.00	\$ 3,335.00	District
Various Schools (2820-R) Resurface Yard Paving & Painting Game Lines Malott & Peterson-Grundy	7-12-67	9-16-67	\$22,913.00	\$22,913.00	District
Raphael Weill School (2877) Yard Paving Repairs O.C. Jones & Sons	9-27-67	2-2-68	\$ 4,930.00	\$ 4,930.00	District
Portola Jr. High Sch. (2854) Yard Paving The Lowrie Paving Co.	9-27-67	1-24-68	\$ 9,298.00	\$ 9,298.00	District
Treasure Island Sch. (2853-R) Court Paving & Yard Resurf. Malott & Peterson-Grundy	11-8-67	4-3-68	\$ 4,387.00	\$ 4,387.00	District
Yerba Buena School (2975) Childrens' Play Yard Pearson & Johnson	5-29-68	0	\$ 3,927.00	0	Childrens' Ctr.
Total Aggregate Value and Amount Expended				\$48,790.00	\$44,863.00

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
B-1 FIRE DEPT. NEW CONSTRUCTION					
Engine Co. No. 28 (2619) Gen. Const. New Firehouse Leon Carlen	4-13-66	6-2-67	\$209,549.00	\$214,609.00	1964 Bond
Engine Co. No. 7 (2620) Gen Construction Stenmark Const. Co.	8-12-66	1-22-68	\$256,467.00	\$257,716.95	1964 Bond
Fire Station No. 17 (2888) Gen. Construction Leon Carlen	5-10-68	.5%	\$392,666.00	\$ 16,200.00	1964 Bond
Total Aggregate Value and Amount Expended			\$858,682.00	\$488,525.95	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
B-2 FIRE DEPT. RECONSTRUCTION					
Engine House No. 49 (2726)					
Door Replacement					
Thornburgh Const Co.	12-16-66	10-16-67	\$ 4,748.00	\$ 4,928.85	General
SFFD Headquarters Bldg. (2835)					
Controls for Engine Generator					
Mohrdick Elec. Co.	7-14-67	1-4-68	\$ 1,177.00	\$ 1,177.00	General
Engine Co. No. 24 (2867)					
Door Replacement					
H.E. Rahlmann Co.	9-27-67	6-3-68	\$ 3,183.00	\$ 3,183.00	General
Total Aggregate Value and Amount Expended			\$ 9,108.00	\$ 9,288.85	

Description & Contractor	CURRENT CONTRACT DATA 1967-1968			Fund
	Awarded	Completed Date or %	Contract Amount	
C-1 SAN FRANCISCO HOSPITAL				
Elect. Dist. Facilities (2630) Enterprise Elec. Works	4-13-66	8-8-67	\$ 49,296.00	General
Remodel X-Ray Dept. 2nd Flr. (2593) Service kBldg. #6, Parts 2B, 2D, & 3 Kenneth K. Lind	4-22-66	2-8-68	\$ 161,446.00	General
Remodel Ward 33 into (2719) Intensive Care Coronary Ctr. Leon Carlen	11-30-66	11-5-67	\$ 35,841.00	General
Expansion & Remodeling (2736) Admitting-Emergency Unit Bldg. 1 - Main Floor Leon Carlen	3-10-67	3-15-68	\$ 99,999.00	General
Remodel Nurses' Home Bldg. 9 (2723) for Outpatient Facilities DeNarde Construction Co.	3-29-67	5-1-68	\$ 142,800.00	General
Bldg. No. 1, 2nd Flr. (2826) Electronic Door Hardware Stanley Magic Door Equip.	6-14-67	10-25-67	\$ 395.00	General
New Cubicle Curtain Track (2838) & Misc. Work - Ward 24 Wm McIntosh & Son	6-14-67	9-7-67	\$ 3,536.00	General
Improve X-Ray Dept. (2792-R) Service Bldg. No. 6 Star Iron Works	6-21-67	9-6-67	\$ 2,722.00	General

Amount
Expended
1967-68

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
C-1 SAN FRANCISCO HOSPITAL (contd.)					
Metal Lettering for (2851) Pathology Bldg. & Central Animal Care & Research Facility A.J. Bayer Co.	7-6-67	3-22-68	\$ 164.00	\$ 164.00	General
Bldg. 30 - Relocation of (2844) Standpipe at Fire Escape Clausen & Patten Inc.	8-2-67	10-27-67	\$ 2,412.00	\$ 2,412.00	General
Medicare Office Bldg. (2797) Moreau Construction	9-20-67	6-20-68	\$ 62,388.00	\$ 62,388.00	General
Security Fence with Fire Gates Vermont Street (2891) Tholl Fence Co.	10-11-67	12-5-67	\$ 686.00	\$ 686.00	General
X-Ray Area (2962) Air Conditioning System Colan Heating & Sheetmetal	4-17-68	75%	\$ 6,441.00	\$ 1,892.00	General
Ward Bldgs. 50 & 70 (2913) Temporary Qtrs. for Patients Leon Carlen	6-26-68	0	\$ 169,954.00	0	General
Total Aggregate Value and Amount Expended			\$738,080.00	\$630,306.82	

CURRENT CONTRACT DATA 1967-1968				
Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68 Fund
C-2 LAGUNA HONDA HOSPITAL				
Fire Protection (2743-R) Sprinkler System Allan Auto. Sprinkler Corp.	4-5-67	12-21-67	\$32,530.00	\$32,470.80 General
Clarendon Hall (2831) Exterior Painting C.L. Disheroon Paint. Co.	6-23-67	10-2-67	\$12,363.00	\$12,363.00 General
Clarendon Hall (2984) Exterior Painting Cal-Western Painting	6-19-68	0	\$11,200.00	0 General
Misc. Alterations (2968) Trans-Western Construction	6-19-68	0	\$18,828.00	0 General
Total Aggregate Value and Amount Expended			\$74,921.00	\$44,833.80

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
C-3 HEALTH CENTER BUILDINGS					
Westside Health Center (2520) Gen. Construction Colwel Const. Co.	5-26-65	8-26-67	\$537,344.00	\$538,858.44	General
Bayview Health Center (2650) Gen. Construction Landes Const. Co.	5-13-66	10-4-67	\$550,899.00	\$556,260.81	General
Sunset-Richmond Health Center (2757) General Construction John A. Nelson	5-31-67	90%	\$636,700.00	\$542,716.00	General
Dist. Health Ctr. #2 (2857) Venetian Blinds Kinel of California	8-2-67	1-19-68	\$ 2,065.00	\$ 2,065.00	General
Dist. Health Ctr. #3 (2858) Venetian Blinds Kinel of California	8-2-67	12-15-67	\$ 2,181.00	\$ 2,361.00	General
Dist. Health Ctr. #2 (2859) Dental Chairs & Units Wm McIntosh & Son	8-18-67	1-5-68	\$ 6,830.00	\$ 7,389.00	General
Dist. Health Ctr. #3 (2860) Dental Chairs & Units Wm McIntosh & Son	8-18-67	12-4-67	\$ 13,659.00	\$ 13,659.00	General
Dist. Health Ctr. #3 (2986) Integrate Paging Systems Monty W. Connery	6-12-68	0	\$ 875.00	0	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
C-3 HEALTH CENTER BUILDINGS (contd.)					
Bayview Health Center (2967-R)					
Garage Door Grille					
The Kinnear Mfg. Co. of Calif.	6-12-68	0	\$ 3,360.00	0	General
Bayview Health Center (2958)					
Chain Link Fence					
Monty W. Connery	4-3-68	7-17-68	\$ 1,747.00	\$ 1,747.00	General
Total Aggregate Value and Amount Expended			\$1,755,660.00	\$1,665,056.25	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
D DE YOUNG MUSEUM					
Brundage Wing (2845) Modif. to Showcases Walter Petersen & Co.	7-14-67	10-17-67	\$ 5,690.00	\$ 5,690.00	General
Additions & Modif. to Sound Equipt. (2882) & Projection Equipt. Aud. Dayco Electronics, Inc.	11-1-67	1-23-68	\$ 1,015.00	\$ 1,015.00	General
Brundage Wing (2916) Storage Bin, Sliding Doors Central Allied Glass Co.	1-12-68	3-26-68	\$12,538.00	\$12,538.00	General
Brundage Wing (2912-R) Photographic Studio & Dark Room F.W. Jones, Inc.	3-8-68	6-26-68	\$ 4,807.00	\$ 4,807.00	General
Brundage Wing (2930) Screen Storage Cabinets Berlin Food Equipt. Co.	3-15-68	45%	\$ 6,400.00	0	General
Brundage Wing (2945) Scroll Storage Cabinets Berlin Food Equipt. Co.	4-10-68	0	\$ 1,908.00	0	General
Total Aggregate Value and Amount Expended			\$32,358.00	\$24,050.00	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
E YOUTH GUIDANCE CENTER					
Cottage B-1 (2725) Renovations Leon Carlen	1-19-67	7-5-67	\$20,800.00	\$21,477.23	General
Cottage C-3 (2862) Renovations Leon Carlen	8-25-67	2-14-68	\$24,425.00	\$24,606.16	General
Admin. Bldg., Probation Off. (2896) Acoustical Work Associated Acoustics, Inc.	10-25-67	12-6-67	\$ 485.00	\$ 485.00	General
Renovations to Admin Bldg. (2920) Second Floor South Pearson & Johnson	2-28-68	90%	\$ 4,974.00	0	General
Total Aggregate Value and Amount Expended			\$50,684.00	\$46,568.39	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Expended 1967-68	Fund
F - CIVIC CENTER					
City Hall (2777) Alterations to Room 375 for New Superior Court Rm. Wilco Const. Co.	12-28-66	11-8-67	\$ 39,240.00	\$ 42,928.93	General
Opera House (2727) Repair Plaster Ceilings & Walls, 4th Floor Patrick J. Ruane, Inc.	1-4-67	8-8-67	\$ 975.00	\$ 975.00	General
Veterans Bldg. (2752) Wall Upholstry - Main & Northwest Galleries S. Brown Company	3-1-67	8-21-67	\$ 2,766.00	\$ 2,766.40	General
Veterans Bldg. (2738) Storage & Exhibit Handling Area, Phase I Merz Brothers	3-8-67	12-4-67	\$ 23,222.00	\$ 25,668.12	General
City Hall (2767) Alts. Muni. Court Rm #310 Moreau Construction	4-26-67	11-2-67	\$ 11,888.00	\$ 12,649.48	General
Opera House (2802) Guard Railings for Tapestries Ashby Metal Prod., Inc.	4-26-67	8-8-67	\$ 2,985.00	\$ 2,985.00	General
Veterans' Bldg. (2811) Kitchen Renovations Basement Auditorium Trans-Western Const. Co.	5-17-67	9-13-67	\$ 5,659.00	\$ 5,659.00	General

Description & Contractor	Awarded	Completed Date or %	Contract Amount	CURRENT CONTRACT DATA 1967-1968	
				Amount Expended 1967-68	Fund
Opera House (2760-E-R) Special Equipment for Intercom, Paging & Closed Circuit T.V. Systems A.B. Loudermilk	6-14-67	6-12-68	\$ 25,389.00	\$ 25,389.00	General
Opera Hse. & Vets Bldg. (2760-R) Rehab - Phase 3 Merz Brothers	6-14-67	97.5%	\$290,475.00	\$256,251.00	General
S.F. Museum of Art, Vets.Bldg. (2783) Repair Elec. Syst. Electrical Const. & Sales	6-14-67	10-5-67	\$ 3,481.00	\$ 3,822.18	General
S.F. Museum of Art, Vets. Bldg.(2836) Sanding & Floor Refinishing Marina Hardwood Floor Co.	6-14-67	7-10-67	\$ 650.00	\$ 650.00	General
Opera House & Vets Bldg. (2837) Painting Work Rainbow Paint & Dec. Co.	6-30-67	10-16-67	\$ 3,230.00	\$ 3,680.00	General
City Hall (2790) Alts. to Various Superior Court Rms, Fourth Floor Moreau Const. Co.	7-21-67	4-1-68	\$ 31,734.00	\$ 25,212.00	General
Opera House (2870) Acous. Wk, Mezzanine Pritchard & Stone	8-25-67	9-26-67	\$ 1,308.00	\$ 1,394.00	General
Opera House (2868) Acous. Wk, Basement The Sono-Ceill Co.	8-25-67	10-3-67	\$ 3,973.00	\$ 4,059.00	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
CIVIC CENTER (contd.)					
Veterans ¹ Bldg. (2906) Painting Amer. Waterproofing & Paint	12-22-67	2-26-68	\$ 1,400.00	\$ 1,400.00	General
Opera House (2774) Stage Recurtaining B.F. Shearer of Calif.	12-22-67	6-28-68	\$203,017.00	\$ 40,500.00	General
City Hall (2929) EDP Complex - Phase II Wilner Const. Co.	4-3-68	52%	\$64,883.00	\$ 31,500.00	General
Hall of Justice (2954) Insp. Bur. & Comm Relations Bureau - Alterations Monty W. Connery	4-10-68	70%	\$ 7,250.00	\$ 5,872.00	General
City Hall (2989) Room 236 - Alterations Monty W. Connery	6-21-68	0	\$ 1,897.00	0	General
Total Aggregate Value and Expended Amount				\$725,422.00	\$439,361.11

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
G - HALL OF JUSTICE					
Bureau of Criminal Info. (2764) Demountable Metal Partitions Moreau Const. Co.	2-24-67	8-17-67	\$ 1,104.00	\$ 1,104.00	General
Jury & Witness Screens (2770) Cabinet Work, Court Rooms Kenneth K. Lind	4-5-67	10-16-67	\$ 7,552.00	\$ 7,502.00	General
Adult Probation Offices (2884) Acous. Treatment for Partitions Pritchard & Stone, Inc.	10-4-67	12-7-67	\$ 2,146.00	\$ 2,146.00	General
Holding Cells (2886) Acous. Treatment Pritchard & Stone	11-1-67	4-22-68	\$ 4,723.00	\$ 5,832.37	General
Juvenile & Insp. Bureaus (2905) Soundproofing, Partition Work Pritchard & Stone, Inc.	11-22-67	4-22-68	\$ 2,026.00	\$ 2,026.00	General
Alterations to Room 206 (2908) Temp. Muni. Court Room Frank Portman Co.	11-29-67	2-14-68	\$ 3,676.00	\$ 4,273.00	General
Security Gates (2904) Basement Parking Area Trans-Western Const. Co.	1-19-68	35%	\$ 18,834.00	\$ 5,764.00	General
Isolation Cell Repairs (2921) County Jail - 7th Floor Kenneth K. Lind	2-16-68	75%	\$ 16,672.00	\$ 11,439.00	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
G - HALL OF JUSTICE (contd.)					
Office of Chief of Police (2922) Soundproofing by Carpet and Drapery Irving P. Jacobs (Interior Designer)	1-31-68	5-29-68	\$ 1,555.46	\$ 1,555.46	General
Tunnell below Coroner's Wing (2946) Insulate Ceiling Monty W. Connery	3-13-68	5-9-68	\$ 4,117.00	\$ 4,117.00	General
Control Center - Traffic Bur. (2942) Police Dept., Alterations Moreau Construction Co.	3-22-68	4 1%	\$ 9,339.00	\$ 3,452.00	General
Dist. Atty's Office (2963) Alterations & Tackboards F.W. Jones, Inc.	4-24-68	4%	\$ 7,646.00	0	General
Adult Probation Room (2966) Alterations Monty W. Connery	5-15-68	1%	\$ 7,951.00	0	General
Crime Lab & Criminal Info. Bureau (2976) Alterations Trans-Western Const.	6-7-68	0	\$ 4,869.00	0	General
Total Aggregate Value and Amount Expended				\$49,210.83	

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
H - MISCELLANEOUS					
Palace of Fine Arts (2190) General Construction M & K Corporation	6-19-64	9-26-67	\$ 6,813,394.00	\$ 6,843,123.20	1959 Bond Private State Fund
Social Services Bldg. (2563) Alt. Part 2 - Rehab. 1680 Mission Street Arntz Brothers	1-12-66	7-3-67	\$ 535,051.00	\$ 551,832.78	General
Log Cabin Ranch School (2636) Junior Facility General Construction Pacific Coast Builders	8-13-66	1-8-68	\$ 964,900.00	\$ 971,545.50	1964 Log Cabin Bond Fund
Excelsior Branch Library (2523) General Construction Wilner Construction Co.	9-14-66	7-24-67	\$ 191,400.00	\$ 210,204.62	General
Lincoln Park (2728) Calif. Palace Legion of Honor Wall Upholstery Galleries 4,5, and 6 S. Brown Company	11-30-66	9-17-67	\$ 9,332.00	\$ 7,075.20	General
Golden Gate Park (2729) Scaffolding for Pagoda, Japanese Tea Garden Safway Steel Products	12-30-66	9-18-67	\$ 1,809.00	\$ 1,809.00	General
Golden Gate Park (2785) Alts. to Bowling Green Clubhouse Louis E. Ravano	5-10-67	9-25-67	\$ 4,719.00	\$ 5,906.35	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
H - MISCELLANEOUS (contd.)					
Dept. Social Services (2746) Air Exhaust Syst., 1st Floor 150 Otis Street Colan Htg. & Sheetmetal Co.	5-10-67	10-27-67	\$ 3,567.00	\$ 3,567.00	General
Hamilton Rec. Center (2807) Acoust. Treat., Natatorium James L. Whittaker	5-24-67	10-23-67	\$ 6,762.00	\$ 6,762.00	General
Japanese Tea Garden (2794) Rehab. Pagoda & Gate Nibbi Bros.	5-26-67	9-8-67	\$22,209.00	\$22,209.00	General
Aquatic Park Drinking Fountain (2763) Cagwin & Dorward	6-2-67	11-8-67	\$ 4,877.00	\$ 4,877.00	General
Calif. Palace Legion of Honor (2818) Wall Repair Trans-Western Const.	6-7-67	11-27-67	\$ 4,349.00	\$ 4,349.00	General
Garfield Rec. Center (2816) Acoust. Treatment, Natatorium Pritchard & Stone, Inc.	6-14-67	2-29-68	\$ 5,173.00	\$ 5,173.00	General
No. Beach Rec. Center (2815) Acoust. Treatment, Natatorium James L. Whittaker	6-9-67	11-8-67	\$ 4,813.00	\$ 4,813.00	General
Calif. Palace Legion of Honor (2809) Elec. Switchboard - Reconst. Elec. Construction & Sales	6-14-67	5-29-68	\$33,453.00	\$33,453.00	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
H - MISCELLANEOUS (contd.)					
Dept. Social Services (2823) Exterior Painting A. Quandt & Sons	6-14-67	8-25-67	\$ 8,700.00	\$ 8,700.00	General
Larsen Park Rec. Center (2828) Acous. Treatment, Natatorium James L. Whittaker	6-30-67	11-28-67	\$ 4,688.00	\$ 4,688.00	General
McLaren Park Rec. Center (2830) Acous. Treatment, Natatorium James L. Whittaker	6-30-67	11-14-67	\$ 4,370.00	\$ 4,370.00	General
Balboa Park Rec. Center (2827) Acous. Treatment, Natatorium James L. Whittaker	6-30-67	12-2-67	\$ 5,979.00	\$ 5,979.00	General
Central Police Station (2779) and North Beach Parking Garage Biltwell Const. Co.	9-13-67	24.2%	\$1,000,277.00	\$219,678.00	General
Laurel Hill Rec. Center (2865) Repair Fire Damages A & T Construction Co.	10-11-67	4-22-68	\$11,224.00	\$12,099.00	General
Hidden Valley Ranch - Jr. Facility (2897) TV Antenna & Cable Andrade Radio & TV Service	11-15-67	5-1-68	\$ 665.00	\$ 731.50	General
Anna E. Waden Branch Library (2873) General Construction Nibbi Brothers	11-22-67	50%	\$230,230.00	\$103,765.00	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
H - MISCELLANEOUS (contd.)					
Calif. Palace Legion Of Honor (2910) Wall Covering for Galleries Cassidy's Interiors, Inc.	11-29-67	88%	\$15,685.00	\$12,510.00	General
Academy of Sciences (2919) Painting - No. American Hall Thomas F. Kenny Jr.	1-10-68	0	\$ 3,175.00	0	General
Palace of Fine Arts (2899) Additional Rest Rooms, Storage & Lighting Moreau Construction Co.	1-17-68	95%	\$53,797.00	\$47,323.00	1959 Bond Private State Fund
Log Cabin Ranch - Jr. Facilities (2902) Elec. Work Sawdust Unit Vee's Electric Co. Inc.	2-7-68	5-3-68	\$ 207.00	\$ 207.00	General
Log Cabin Ranch - Jr. Facilities (2934) Addl. Work Admin. Bldg. Hay & Young Const. Co.	3-1-68	75%	\$ 839.00	0	General
Hassler Hospital (2686-R) Remodel Diet Kitchen Moreau Construction Co.	3-6-68	43%	\$44,479.00	\$17,340.00	General
Hidden Valley Ranch (2901) Jr. Boys Facility Painting Game Lines Malott & Peterson-Grundy	5-15-68	0	\$ 1,900.00	0	General
Legion of Honor (2979) Gallery 9, Wall Covering S. Brown Co.	6-7-68	0	\$ 2,377.50	0	General

CURRENT CONTRACT DATA 1967-1968

Description & Contractor	Awarded	Completed Date or %	Contract Amount	Amount Expended 1967-68	Fund
H - MISCELLANEOUS (contd.)					
Brooks Property (2964) Alterations Kenneth K. Lind	6-14-68	0	\$16,997.00	0	General
Chinatown Gateway (2863) General Construction Moreau Construction Co.	6-21-68	0	\$74,843.00	0	General
Total Aggregate Value and Amount Expended			\$10,086,240.50	\$9,114,090.15	



